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# FRAMEWORK OF EARTH COMPETENCES

The Framework of Earth Competences was developed within the "EARTHgames4EyoUth" project - a collaborative effort involving several European organizations: ORGANIZATIA ECOLOGISTA NEGUVERNAMENTALA MARE NOSTRUM from Romania, UniGrowth Development Center from Armenia, Slovak Eco Quality NGO from Slovakia, and Today We Have Izabela Kotyńska-Zielińska from Poland. This initiative was co-funded by the Erasmus+ Programme of the European Union.

In light of the escalating challenges posed by climate change, the EARTHgames4EyoUth project aimed to enhance the quality and innovation of youth education by introducing essential Earth competences. Through interactive games, educational activities, and this competency framework, the project aimed to equip young Europeans and their educators with the practical knowledge, essential skills, and proactive attitudes necessary to effectively engage with and respond to global environmental challenges. Our goal was to bridge the gap between policy-making and grassroots actions, ensuring environmental education is both accessible and engaging for today's youth.

# Framework

The Framework of Earth Competences can serve as a useful guide outlining key knowledge, skills, and attitudes needed for environmental awareness and responsible living. It promotes sustainable lifestyles, encourages eco-friendly habits, and helps people align their daily life with core environmental values - actions that benefit communities and the planet alike.

Although mainly designed for educating young people, the Framework is suitable for lifelong learning and offers a clear basis for understanding current and future sustainability challenges. Its flexible format works well for people with different skills, needs, and goals.

The Framework of Earth Competences also includes easy-to-follow infographics for each of its 15 core competences.

# What is an Earth Competence

A competence is essentially about being good at certain tasks or roles by combining relevant knowledge, practical skills, and appropriate attitudes. Earth competence specifically refers to understanding environmental issues and sustainability, and recognizing how our daily actions impact the planet's health and our communities.

It includes practical skills such as adopting eco-friendly practices, reducing resource consumption, and inspiring others to care for the environment. People who are Earth competent actively choose sustainability, feel accountable to future generations, and collaborate effectively with others to tackle environmental challenges.

Simply put, Earth competence is about making sustainability a natural part of your lifestyle, your work, and how you interact with the environment, contributing to a healthier planet for today and tomorrow.

# Why is it important

In today's rapidly changing world, we all need skills that support sustainability and eco-friendly living. Understanding and practicing the 5 R's - refuse, reduce, reuse, repurpose, and recycle - is crucial, but the journey goes even beyond it towards strategic, critical or action oriented thinking. Being Earth competent means knowing how to take meaningful environmental actions, collaborating effectively with others, pursuing eco-friendly careers, and contributing positively to the future of our planet.

Developing these Earth competences is essential for individuals, communities, and organizations alike. That's exactly why our partnership created the Framework of Earth Competences. Through this guide, we aim to clearly define what it means to be environmentally aware and capable.

Our goal is to inspire people to take active roles in creating a sustainable, responsible, and healthier world for all.

# Existing materials & methodology used

When creating our Framework of Earth Competences, we drew inspiration and information from several trusted global resources:

## **United Nations Sustainable Development Goals (SDGs)**

A set of 17 goals designed by the UN to tackle social, economic, and environmental issues worldwide, including climate change and sustainability.

## **Earth Charter**

A global statement that outlines key principles for building a fair, sustainable, and peaceful society, emphasizing the importance of ethical behavior and environmental responsibility.

## **Intergovernmental Panel on Climate Change (IPCC)**

The leading international organization providing detailed scientific reports on climate change, as well as ways to reduce its impact and adapt to changes already happening.


## **Environmental Protection Agency (EPA)**

Governmental bodies dedicated to protecting environmental health. EPA websites offer extensive guidance on sustainability, environmental policies, and eco-friendly habits.

## **World Wildlife Fund (WWF)**

A global organization focused on biodiversity and sustainability, providing many helpful resources and practical tips for sustainable living and conservation.

You can find additional details and links to the specific competence frameworks we consulted in the resource section at the end of this document.



# Structure of the Earth competences

The Framework of Earth Competences guides learners through three stages: **rookie, advanced, and master**. Each stage describes specific knowledge, skills, and attitudes that help you put sustainability into practice in your daily life.

At the **rookie level**, you'll get to know the basics. You'll learn key concepts, practice simple eco-friendly actions, and begin building attitudes that reflect awareness and care for the environment.

Moving up to the **advanced level**, you'll strengthen your understanding and apply what you've learned to real-life situations. This stage helps you tackle problems creatively and confidently, further developing the attitudes and values necessary for sustainable living.



Finally, at the master level, you'll reach a higher level of expertise, combining advanced knowledge and practical skills with a deep commitment to sustainability. Here, you'll be encouraged to innovate, lead by example, and inspire others—showing a strong grasp of how our actions affect the planet's future.

Another layer of categorisation is division of the competencies is into 3 groups - INTRAPERSONAL, INTERPERSONAL & GLOBAL - each containing a set of competencies in that field. You can see their division by the colour coding or by their numbers:

1-5: INTRAPERSONAL

5-7: INTERPERSONAL

8-15: GLOBAL

# Competences

1. Valuing sustainability
2. Creativity
3. Motivation and perseverance
4. Self awareness
5. Adaptability
6. Solidarity
7. Working with others
8. Critical thinking
9. Exploratory thinking
10. Futures thinking
11. Strategic/action oriented thinking
12. Environmental justice
13. Political agency
14. Working with AI
15. Information and technology

1.

# VALUING SUSTAINABILITY ROOKIE LEVEL

## KNOWLEDGE

Summarize the basics of the Sustainable Development Goals (SDGs) and their role in global sustainability efforts



Describe the 5 R's: Refuse, Reduce, Reuse, Repurpose, and Recycle, and their importance in sustainability

Explain how personal actions, like reducing waste, impact the environment

## SKILLS

Identify eco-friendly products while shopping to make more sustainable choices

Explore simple ways to compost and recycle, turning waste into valuable resources

Practice refusing single-use plastics and choosing reusable alternatives in daily life



## ATTITUDES

Develop curiosity about discovering new ways to protect the planet

Appreciate the beauty and value of nature, fostering a connection to its preservation



Support businesses that prioritize eco-friendly practices and values

# VALUING SUSTAINABILITY ADVANCED LEVEL

## KNOWLEDGE

Analyze how sustainable systems, like renewable energy or recycling programs, work together to protect the environment



Discuss current environmental issues and emerging solutions worldwide

Explain the principles of key environmental policies and how they affect communities

## SKILLS

Plan projects or activities that prioritize sustainability, like organizing a zero-waste event

Create innovative methods to reduce waste and extend the lifespan of resources

Inspire others to adopt green practices by teaching advanced sustainability concepts



## ATTITUDES

Promote green values by advocating for eco-friendly practices in your community

Join the global mission of sustainability as the collective effort to improve the planet



Demonstrate creativity in finding solutions to minimize waste and maximize resource use

# VALUING SUSTAINABILITY MASTER LEVEL

## KNOWLEDGE

Evaluate theories of sustainable development and their relevance to global challenges



Examine complex global sustainability agendas and propose actionable solutions

Assess the long-term impact of sustainability decisions on policy and the environment

## SKILLS

Lead sustainability initiatives, such as community clean-ups or awareness campaigns

Develop long-term strategies for reducing environmental impact at a community or organizational level

Advocate for sustainable policies by presenting solutions to local leaders or organizations



## ATTITUDES

Show commitment to sustainability as a lifelong mission, taking responsibility for the planet's well-being

Internalize your role as a global citizen, recognizing your impact on the planet



Model decision-making that prioritizes lasting environmental benefits, inspiring others to follow suit

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### KNOWLEDGE

Evaluate theories of sustainable development and their relevance to global challenges.



Examine complex global sustainability concepts, propose actionable solutions.

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# CREATIVITY ROOKIE LEVEL

## KNOWLEDGE

Define nature of creative ideas, such as eco-friendly designs or innovative materials

Explain how creativity can make sustainable living more exciting



List environmentally friendly technologies & materials that can be used for simple tasks

## SKILLS

Brainstorm new and fun ideas for sustainable living like art or projects from recycled materials

Demonstrate sharing eco-friendly messages creatively - making short videos or social media posts

Experiment with small steps to live more sustainably, such as testing DIY eco-friendly solutions



## ATTITUDES

Show curiosity about how things work in nature and ask questions

Sum up what motivates you to explore and learn new things



Be open to trying new creative approaches in your daily activities

# CREATIVITY ADVANCED LEVEL

## KNOWLEDGE

Formulate creative solutions for environmental challenges in your region

Propose how creativity can be used to teach or learn about climate



Compare initiatives in your region that use innovative & creative approaches to sustainability

## SKILLS

Use imagination to come up with unique ideas to solve environmental problems

Inspect different brainstorming methods, alone or with friends, to generate creative ideas for sustainability projects

Try to disprove solutions to simple problems in your community/life



## ATTITUDES

Choose creativity in simple daily actions

Defend the cause of uncertainty and mistakes when trying creative solutions



Compare exploring new ideas with & without flexibility and adaptability

# CREATIVITY MASTER LEVEL

## KNOWLEDGE

Evaluate global initiatives that use creativity to solve environmental problems

Justify advanced techniques of thinking outside the box for eco-innovation



Assess techniques and tools to assess creative sustainability

## SKILLS

Turn your eco-ideas into real-life prototypes, such as designing a small green product

Map out your sustainability journey and design it in physical creative form

Lead by example, influence others to use their creativity



## ATTITUDES

Develop relationship with risk and being adventurous, even if some ideas don't work out

Build an innovation and progress, especially when it leads to sustainable solutions



Imagine your life if you keep creativity as your partner in every situation

2.

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Examine global initiatives that use creativity to solve environmental problems

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Analyze techniques and tools to advance creative sustainability

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## CREATIVITY ROOKIE LEVEL

### KNOWLEDGE

Define nature of creative ideas, such as eco-friendly, cheap or innovative materials

Explain how creativity can make sustainable living more exciting



List environmentally friendly technologies & materials that can be used for simple tasks

### SKILLS

Brainstorm new and fun ideas for sustainable living like art or projects from recycled materials

Demonstrate sharing eco-friendly messages creatively - making short videos or social media posts

Experiment with simple steps to live more sustainably, such as wasting less eco-friendly solutions



### ATTITUDES

Show curiosity about how things work in nature and ask questions

Sum up what motivates you to explore and learn new things



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# 3.

## MOTIVATION & PERSEVERANCE ROOKIE LEVEL

### KNOWLEDGE

Define what SMART goals are and explain how they can help with short-term tasks

Identify basic time management strategies, like organizing tasks into a schedule



Explain why setbacks and mistakes are part of learning and growing

### SKILLS

Set small, achievable goals, using the SMART goal method

Practice self-motivation by using positive affirmations or encouraging self-talk

Create a simple daily schedule & practice sticking to it



### ATTITUDES

Accept challenges as opportunities for growth, acknowledging that setbacks are part of progress

Value asking for help, understanding that seeking support is a sign of strength

Support your confidence by defining your abilities



## MOTIVATION & PERSEVERANCE ADVANCED LEVEL

### KNOWLEDGE

Summarize the psychology of motivation, how both internal & external factors work together

Explain the concept of grit and its role in staying committed to long-term goals despite challenges



Propose how setting goals can boost your confidence & help you believe in yourself

### SKILLS

Break big tasks into smaller steps & celebrate small successes along the way

Develop resilience by practicing bouncing back from setbacks & staying motivated even when things don't go as planned

Create a balanced schedule, prioritizing important tasks & leaving time for rest & fun



### ATTITUDES

Share positivity about challenges, viewing them as opportunities to learn

Build confidence in your abilities, trust that hard work & persistence will pay off

Commit to continuous improvement, believing that growth is always possible through effort



## MOTIVATION & PERSEVERANCE MASTER LEVEL

### KNOWLEDGE

Analyze different goal-setting techniques, including traditional but also value long-term goals

Compare motivation theories and their application in a team environment

Evaluate how mindfulness & emotional awareness can help manage stress & maintain focus



### SKILLS

Compose an achievable long-term plan for you or your community

Mentor others in setting goals, managing time effectively, and building resilience

Manage time strategically, prioritizing critical tasks & delegating responsibilities when needed



### ATTITUDES

Stay committed to your goals, showing others that perseverance leads to success

Prioritize well-being; understand that staying motivated requires balance between hard work & taking care of your physical & mental health

Be a role model for resilience, demonstrating that setbacks are temporary



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## MOTIVATION & PERSEVERANCE MASTER LEVEL

### KNOWLEDGE

Analyze different goal-setting techniques, comparing traditional but often vague long-term goals

Compare motivation theories and their application in a team environment

Evaluate how mindfulness & emotional awareness can help manage stress & maintain focus



### SKILLS

Compose an achievable long-term plan for you or your community

Mentor others in setting goals, managing time effectively, and building resilience

Manage time strategically, prioritizing critical tasks & delegating responsibilities when needed



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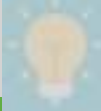


## MOTIVATION & PERSEVERANCE ROOKIE LEVEL

### KNOWLEDGE

Define what SMART goals are and explain how they can help with short-term tasks

Identify good time management strategies like reprioritizing tasks into a schedule



Explain why setbacks and mistakes are part of learning and growing

### SKILLS

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## SELF AWARENESS ROOKIE LEVEL

### KNOWLEDGE

Define basic terms such as "carbon footprint" and "sustainable living"



Explain how small daily habits, like leaving lights on or wasting food, can harm the environment

Identify different types of waste & how they are disposed of properly

### SKILLS

Track your daily water and electricity usage and note patterns that could reduce waste

Select eco-friendly products, like those with green certifications, when shopping

Experiment with alternative transport, such as walking or cycling, for short trips



### ATTITUDES

Show curiosity about how everyday choices affect the environment and ask questions

Practise trying small changes, like recycling more or eating less meat



Develop a sense of value in sustainable practices, such as reducing plastic use

## SELF AWARENESS ADVANCED LEVEL

### KNOWLEDGE

Explain how your personal choices - diet or travel - contribute to global environmental issues

Analyze the impact of consumerism, from product creation to disposal

Create a scheme of the environmental policies in your country or region



### SKILLS

Adopt eco-friendly transportation options regularly, like public transit or biking

Engage in hands-on activities like composting, sustainable gardening, or volunteering

Make informed choices and explain them when purchasing products - considering their environmental impact



### ATTITUDES

Demonstrate a sense of responsibility for your role in protecting the environment

Make a list of your qualities that could support your sustainable journey



Be proactive about finding new ways to reduce waste and energy use in your daily life

## SELF AWARENESS MASTER LEVEL

### KNOWLEDGE

Analyze your role in large-scale global environmental issues like climate change, deforestation or pollution

Evaluate your understanding of the relationship between sustainability and economics

Assess local eco-friendly innovations and technology and how you could benefit from them



### SKILLS

Create your personal plan of eco-friendly choices in your daily routine

Incorporate sustainability into your home life by saving energy & resources

Organize community initiatives, where you could apply your strengths



### ATTITUDES

Propose how can your commitment to environmental protection be set into your personal & professional decisions

Align your values with environmental ethics and make sustainability a central part of your worldview



Solve how you could motivate others to join environmental causes



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## ADAPTABILITY ROOKIE LEVEL

### KNOWLEDGE

Explain how small changes (using less water or eating less meat) help us live more sustainably

Identify the environmental benefits of reducing waste through habits like reusing and recycling



Describe why flexibility in daily choices helps reduce environmental impact

### SKILLS

Change small habits in daily life (reusable water bottle, turning off electronics when not in use)

Try new eco-friendly ideas & see how they fit into your life

Try adapting to the environment by reducing your waste (recycling, composting, or reusing)



### ATTITUDES

Show curiosity by exploring new ways to support the planet

Accept responsibility for personal choices, recognize their positive environmental impact

Be willing to adapt and understand that even small adjustments make a difference



## ADAPTABILITY ADVANCED LEVEL

### KNOWLEDGE

Summarize how climate change affects both people and ecosystems

Compare how different communities adapt to environmental challenges, such as extreme weather or pollution



Explain how flexibility and adaptability help manage environmental issues effectively

### SKILLS

Create a plan for your routine to deal with environmental challenges, use less energy during a heatwave, conserve water when it's scarce

Solve problems creatively, create new ways to cut down on waste or travel sustainably

Collaborate with others in initiatives like local recycling programs or clean-up events



### ATTITUDES

Remain positive about change, viewing challenges as opportunities to find solutions

Defend open-mindedness, accept that other people have different ideas for how to handle issues

Show openness to adjust your lifestyle, according to current conditions



## ADAPTABILITY MASTER LEVEL

### KNOWLEDGE

Analyze new roles & integrate sustainability throughout climate change planning

Evaluate how governments and organizations create policies to support adaptation & resilience



Assess the role of adaptation programs in governmental, suggest recommendations for implementation

### SKILLS

Design how to plan and implement resilience measures in your local community

Evaluate & plan ways how to advocate for adaptation policies and initiatives

Use digital tools, data analytics & AI to boost adaptation planning and implementation



### ATTITUDES

Identify and practice new methods to adapt to environmental changes as they arise

Demonstrate optimism by highlighting the success of adaptation efforts and encouraging others to take similar actions

Promote teamwork, recognizing the value of diverse perspectives in solving environmental challenges



## ADAPTABILITY ROOKIE LEVEL

### KNOWLEDGE

Explain how small changes (using less water or eating less meat) help us live more sustainably.

Identify the environmental benefits of reducing wastethrough habits like reusing and recycling.



Describe why flexibility in daily choices helps reduce environmental impact.

### SKILLS

Change small habits in daily life (reusable water bottle, turning off electronics when not in use).

Try new eco-friendly ideas & see how they fit into your life.

Try adapting to the environment by reducing your waste (recycling, composting, or reusing).



### ATTITUDES

Show curiosity by exploring new ways to support the planet.

Accept responsibility for personal choices, recognize their positive environmental impact.

Be willing to adapt and understand that even small adjustments make a difference.



## ADAPTABILITY ADVANCED LEVEL

### KNOWLEDGE

Summarize how climate change affects both people and ecosystems.

Compare how different communities adapt to environmental challenges, such as extreme weather or pollution.



Explain how flexibility and adaptability help manage environmental issues effectively.

### SKILLS

Create a plan for your routine to deal with environmental challenges, use less energy during a heatwave, conserve water when it's scarce.

Solve problems creatively, create new ways to cut down on waste or travel sustainably.

Collaborate with others in initiatives like local recycling programs or clean-up events.



### ATTITUDES

Remain positive about change, viewing challenges as opportunities to find solutions.

Defend open-mindedness, accept that other people have different ideas for how to handle issues.

Showcase motivation to adjust your lifestyle, according to current conditions.



## ADAPTABILITY MASTER LEVEL

### KNOWLEDGE

Analyze new roles & integrate sustainability measurements, climate change planning.

Evaluate how governments and organizations create policies to support adaptation & resilience.



Assess the role of adaptation programs in governmental, suggest recommendations for implementation.

### SKILLS

Design how to plan and implement resilience measures in your local community.

Evaluate & plan ways how to advocate for adaptation policies and initiatives.

Use digital tools, data analytics & AI to boost adaptation planning and implementation.



### ATTITUDES

Identify and practice new methods to adapt to environmental changes as they arise.

Demonstrate optimism by highlighting the success of adaptation efforts and encouraging others to take similar actions.

Promote teamwork, recognizing the value of diverse perspectives in solving environmental challenges.





## ADAPTABILITY ROOKIE LEVEL

### KNOWLEDGE

Explain how small changes (using less water or eating less meat) help us live more sustainably.

Identify the environmental benefits of reducing waste through habits like reusing and recycling.



Describe why flexibility in daily choices helps reduce environmental impact.

### SKILLS

Change small habits in daily life: reusable water bottle, turning off electronics when not in use.

Try new eco-friendly ideas & see how they fit into your life.

Try adapting to the environment by reducing your waste (recycling, composting, or reusing).



### ATTITUDES

Show curiosity by exploring new ways to support the planet.

Accept responsibility for personal choices, recognize their positive environmental impact.

Be willing to adapt and understand that even small adjustments make a difference.



## ADAPTABILITY ADVANCED LEVEL

### KNOWLEDGE

Summarize how climate change affects both people and ecosystems.

Compare how different communities adapt to environmental challenges, such as extreme weather or pollution.



Explain how flexibility and adaptability help manage environmental issues effectively.

### SKILLS

Create a plan for your routine to deal with environmental challenges, use less energy during a heatwave, conserve water when it's scarce.

Solve problems creatively, create new ways to cut down on waste or travel sustainably.

Collaborate with others in initiatives like local recycling programs or clean-up events.



### ATTITUDES

Remain positive about change, viewing challenges as opportunities to find solutions.

Defend open-mindedness, accept that other people have different ideas for how to handle issues.



Show openness to adjust your lifestyle, according to current conditions.

## ADAPTABILITY MASTER LEVEL

### KNOWLEDGE

Analyze how cities integrate sustainability measures into climate change planning.

Evaluate how governments and organizations create policies to support adaptation & resilience.



Assess the role of adaptation principles in governance, suggest improvements for implementation.

### SKILLS

Design how to plan and implement resilience measures in your local community.

Evaluate & plan ways how to advocate for adaptation policies and initiatives.

Use digital tools, data analytics & AI to boost adaptation planning and implementation.



### ATTITUDES

Identify and practice new methods to adapt to environmental changes as they arise.

Demonstrate optimism by highlighting the success of adaptation efforts and encouraging others to take similar actions.



Promote teamwork, recognizing the value of diverse perspectives in solving environmental challenges.

6.

## SOLIDARITY ROOKIE LEVEL

### KNOWLEDGE

Identify ways people and nature are connected

Outline the basics of fairness, like why sharing resources & respecting different viewpoints matter



Describe simple actions for protecting the environment

### SKILLS

Find local activities that make a positive impact for the community

Listen to others' perspectives, different viewpoints & interpret how others experience the world

Consider sharing resources with others, like organizing a book or clothing swap



### ATTITUDES

Recognize that everyone's well-being is connected

Ask questions about global issues & the challenges people face around the world

Practice learning from others, appreciate their ideas & backgrounds



## SOLIDARITY ADVANCED LEVEL

### KNOWLEDGE

Summarize how environmental issues, like climate change, are connected to fairness & equality

Analyze global challenges, such as poverty or biodiversity loss & how they impact communities differently

Evaluate how countries can work together on global issues



### SKILLS

Discover experience of work in teams with people from different backgrounds

Discuss everyone's input in discussions, helping make sure all voices are heard & valued

Develop a simple plan for helping others & monitor your progress



### ATTITUDES

Recognize your role as a global citizen, feeling responsible for making the world a fairer, greener place

Practice teamwork & recognize the strength in working with others

Validate fairness, understanding that everyone deserves respect & support, no matter where they come from



## SOLIDARITY MASTER LEVEL

### KNOWLEDGE

Evaluate the impact of global movements like climate action or human rights, assessing how they help communities worldwide

Assess the impact of your community's actions on global issues, without losing sight of local contributions to larger goals

Develop global networks of young people who work together for common causes



### SKILLS

Propose ways how to support voices that aren't often heard

Evaluate the success of a community project or initiative solidarity-oriented

Contribute to your community, mentor younger peers



### ATTITUDES

Consistently model solidarity in everyday actions, demonstrating that solidarity is a core part of who you are

Verbally support inclusive practices & choose promoting equality in all group activities

Encourage others to embrace unity, influencing friends and community members



6.

## SOLIDARITY ROOKIE LEVEL

### KNOWLEDGE

Identify ways people and nature are connected

Outline the basics of fairness, like why sharing resources & respecting different viewpoints matter

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### SKILLS

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### ATTITUDES

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### KNOWLEDGE

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### SKILLS

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Discuss everyone's input in discussions, helping make sure all voices are heard & valued

Develop a simple plan for helping others & monitor your progress



### ATTITUDES

Recognize your role as a global citizen, feeling responsible for making the world a fairer, greener place

Practise teamwork & recognize the strength in working with others

Validate fairness, understanding that everyone deserves respect & support, no matter where they come from



## SOLIDARITY MASTER LEVEL

### KNOWLEDGE

Evaluate the impact of global movements like climate action or human rights, assess how they help communities worldwide

Assess the impact of your community's actions on global issues, voice that local movements contribute to larger goals

Develop global networks of young people who work together for common causes



### SKILLS

Propose ways how to support voices that aren't often heard

Evaluate the success of a community project or initiative solidarity-oriented

Contribute to your community, mentor younger peers



### ATTITUDES

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Verbally support inclusive practices & choose promoting equality in all group activities

Encourage others to embrace unity, influencing friends and community members



## SOLIDARITY ROOKIE LEVEL

### KNOWLEDGE

Identify: how people and nature are connected

Outline: the basics of fairness, like: why sharing resources & respecting different viewpoints matter



Describe: simple actions for protecting the environment

### SKILLS

Find: local activities that make a positive impact for the community

Listen to others' perspectives, different viewpoints & interpret how others experience the world

Consider sharing resources with others, like organizing a book or clothing swap



### ATTITUDES

Recognize that everyone's well-being is connected

Ask questions about global issues & the challenges people face around the world



Practice learning from others, appreciate their ideas & backgrounds

## SOLIDARITY ADVANCED LEVEL

### KNOWLEDGE

Summarize how environmental issues, like climate change, are connected to fairness & equality



Analyze global challenges, such as poverty or biodiversity loss & how they impact communities differently

Evaluate how countries can work together on global issues

### SKILLS

Discover: experience of work in teams with people from different backgrounds

Discuss everyone's input in discussions, helping make sure all voices are heard & valued

Develop a simple plan for helping others & monitor your progress



### ATTITUDES

Recognize your role, as a global citizen, feeling responsible for making the world a fairer, greener place

Practice teamwork & recognize the strength in working with others



Validate fairness, understanding that everyone deserves respect & support, no matter where they come from

## SOLIDARITY MASTER LEVEL

### KNOWLEDGE

Evaluate the impact of global movements, like climate action or human rights, assess how they help communities worldwide



Assess the impact of your community's actions on global issues, ways that local movements contribute to larger goals

Research global networks of young people who work together for solidarity causes

### SKILLS

Propose ways how to support voices that aren't often heard

Evaluate the success of a community project or initiative solidarity oriented

Contribute to your community, mentor younger peers



### ATTITUDES

Consistently model solidarity in everyday actions, demonstrate that solidarity is a core part of who you are

Verbally support inclusive practices & choose promoting equality in all group activities



Encourage others to embrace unity, influencing friends and community members



# 7.

## WORKING WITH OTHERS ROOKIE LEVEL

### KNOWLEDGE

Name the basics of working as a team, explain the importance of shared goals

State why empathy & good communication are essential for teamwork



Define simple methods for resolving conflicts within a group

### SKILLS

Illustrate communicating clearly in a way that everyone understands

Show active listening by focusing on what others are saying without interrupting

Demonstrate giving simple feedback to teammates, use it to improve your results



### ATTITUDES

Accept various ideas, showing respect for different opinions

Name benefits of being open to feedback and improvement



Practice flexibility and adjusting your role to support the team's success

## WORKING WITH OTHERS ADVANCED LEVEL

### KNOWLEDGE

Discuss how empathy and clear communication help teamwork better

Collect ways how to work with people from different backgrounds



Analyze ways to handle conflicts in teams, like talking openly & finding common solutions

### SKILLS

Use empathy and clear communication to solve a conflict in the group

Practice staying calm when things go wrong, help the team figure out solutions without stressing

Create steps how to boost team spirit and helping out when someone is struggling



### ATTITUDES

Arrange that everyone feels included, listening to & respecting different opinions

Display kindness, showing that you care about your teammates



Promote & defend fairness, encourage everyone to work together honestly and treat each other with respect

## WORKING WITH OTHERS MASTER LEVEL

### KNOWLEDGE

Explain the role of listening and how being able to listen can help your team

Assess how to work with diverse teams, using the diversity to achieve shared goals



Rate different techniques to inspire others

### SKILLS

Create a system how to use individual diversity in your team for achieving a common goal

Practice respectful argumentation with finding common ground

Bring people together by organizing group activities or discussions that allow everyone to contribute



### ATTITUDES

Propose long-term solutions, helping your team think about how the work you do together can make a difference over time

Act as role model for inclusion, showing others how to create space for everyone's ideas



Show resilience & determination, staying committed, even when challenges arise

# 7.

## WORKING WITH OTHERS ROOKIE LEVEL

### KNOWLEDGE

Name the basics of working as a team, explain the importance of shared goals

State why empathy & good communication are essential for teamwork



Define simple methods for resolving conflicts within a group

### SKILLS

Illustrate communicating clearly in a way that everyone understands

Show active listening by focusing on what others are saying without interrupting

Demonstrate giving simple feedback to teammates, use it to improve your results



### ATTITUDES

Accept various ideas, showing respect for different opinions

Name benefits of being open to feedback and improvement



Practice flexibility and adjusting your role to support the team's success

## WORKING WITH OTHERS ADVANCED LEVEL

### KNOWLEDGE

Discuss how empathy and clear communication help teamwork better

Collect ways how to work with people from different backgrounds



Analyze ways to handle conflicts in teams, like talking openly & finding common solutions

### SKILLS

Use empathy and clear communication to solve a conflict in the group

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Create steps how to boost team spirit and helping out when someone is struggling



### ATTITUDES

Arrange that everyone feels included, listening to & respecting different opinions

Display kindness, showing that you care about your teammates



Promote & defend fairness, encourage everyone to work together honestly and treat each other with respect

## WORKING WITH OTHERS MASTER LEVEL

### KNOWLEDGE

Explain the risk of excluding and how being able, fair and open can help your team

Assess how to work with diverse teams, using the diversity to achieve shared goals



Rate different techniques to manage diverse

### SKILLS

Create a system how to use individual diversity in your team for achieving a common goal

Practice respectful argumentation with finding common ground

Bring people together by organizing group activities or discussions that allow everyone to contribute



### ATTITUDES

Propose long-term solutions, helping your team think about how the work you do together can make a difference over time

Act as role model for inclusion, showing others how to create space for everyone's ideas



Show resilience & determination, staying committed, even when challenges arise

# 7.

## WORKING WITH OTHERS ROOKIE LEVEL

### KNOWLEDGE

Identify the basics of working with teams, explain the importance of shared goals

State why empathy & good communication are essential for teamwork



Define simple methods for resolving conflicts within a group

### SKILLS

Illustrate communicating clearly in a way that everyone understands

Know active listening by focusing on what others are saying without interrupting

Demonstrate giving simple feedback to teammates used to improve your results



### ATTITUDES

Accept various ideas, showing respect for different opinions

Name benefits of being open to feedback and improvement



Practice flexibility and adjusting your role to support the team's success

## WORKING WITH OTHERS ADVANCED LEVEL

### KNOWLEDGE

Discuss how empathy and clear communication help teamwork better

Collect ways how to work with people from different backgrounds



Analyze ways to handle conflicts in teams, like taking openly & finding common solutions

### SKILLS

Use empathy and clear communication to solve a conflict in the group

Practice staying calm when things go wrong, help the team figure out solutions without stressing

Create steps how to boost team spirit and helping out when someone is struggling



### ATTITUDES

Arrange that everyone feels included, listening to & respecting different opinions

Display kindness, showing that you care about your teammates



Promote & defend fairness, encourage everyone to work together honestly and treat each other with respect

## WORKING WITH OTHERS MASTER LEVEL

### KNOWLEDGE

Evaluate the role of leadership and how being kind, fair, and open can help your team

Assess how to work with diverse teams, using the diversity to achieve shared goals



Rate different techniques to inspire others

### SKILLS

Create a system how to use individual diversity in your team for achieving a common goal

Practise respectful argumentation with finding common ground

Bring people together by organizing group activities or discussions that allow everyone to contribute



### ATTITUDES

Propose long-term solutions, helping your team think about how the work you do together can make a difference over time

Act as role model for inclusion, showing others how to create space for everyone's ideas



Show resilience & determination, staying committed, even when challenges arise

## CRITICAL THINKING ROOKIE LEVEL

### KNOWLEDGE

Define critical thinking and explain its role in making eco-conscious decisions

Describe how critical thinking helps in understanding and navigating moral questions related to sustainability



Describe ways to identify reliable sources of information to assess green initiatives

### SKILLS

Find local eco-friendly initiatives and discuss their actual impact on the environment

Use questions to critically examine the benefits and drawbacks of green policies

Recognize biases in public eco-friendly choices by analyzing underlying beliefs



### ATTITUDES

Value diverse viewpoints by actively listening and considering different perspectives

Demonstrate curiosity about how critical thinking influences decision-making processes



Commit to using evidence and data as the foundation for eco-conscious choices

## CRITICAL THINKING ADVANCED LEVEL

### KNOWLEDGE

Identify examples of how critical thinking can be used to address simple sustainability challenges

Discuss how global eco-policies address specific environmental issues and suggest improvements



Compare strategies how to identify reliable information sources and avoid misinformation

### SKILLS

Create simple arguments supported by evidence to promote effective green initiatives

Break down environmental issues into manageable parts to understand their causes and effects

Organize small group discussions to analyze environmental challenges using critical thinking



### ATTITUDES

Encourage others to think critically and contribute ideas in collaborative discussions

Encourage open-mindedness by asking simple questions and ensuring everyone's ideas are respected in discussions



Explain ways of applying critical thinking in everyday decisions

## CRITICAL THINKING MASTER LEVEL

### KNOWLEDGE

Describe advanced sustainability practices and analyze how they can be scaled locally

Assess how critical thinking can contribute to long-term implementation of eco-sustainability efforts



Evaluate in detail the strengths and weaknesses of different environmental initiatives

### SKILLS

Present critical thinking-based solutions in simple and clear ways to inspire community action

Teach peers how to apply critical thinking when assessing environmental decisions and policies

Lead group projects to develop practical solutions for local environmental issues using critical thinking



### ATTITUDES

Commit to continual improvement in critical thinking skills and their application to sustainability

Support a community culture that values evidence-based decisions and critical enquiry



Model consistent use of critical thinking to solve real-world problems and inspire others to do the same



## CRITICAL THINKING ROOKIE LEVEL

### KNOWLEDGE

Define critical thinking and explain its role in making eco-conscious decisions

Describe how critical thinking helps in understanding and navigating moral questions related to sustainability

Describe ways to identify reliable sources of information to assess green initiatives



### SKILLS

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### ATTITUDES

Value diverse viewpoints by actively listening and considering different perspectives

Demonstrate curiosity about how critical thinking influences decision-making processes

Commit to using evidence and data as the foundation for eco-conscious choices



## CRITICAL THINKING ADVANCED LEVEL

### KNOWLEDGE

Identify examples of how critical thinking can be used to address simple sustainability challenges

Discuss how global eco-policies address specific environmental issues and suggest improvements

Compare strategies how to identify reliable information sources and avoid misinformation



### SKILLS

Create simple arguments supported by evidence to promote effective green initiatives

Break down environmental issues into manageable parts to understand their causes and effects

Organize small group discussions to analyze environmental challenges using critical thinking



### ATTITUDES

Encourage others to think critically and contribute ideas in collaborative discussions

Encourage open-mindedness by asking simple questions and ensuring everyone's ideas are respected in discussions



Explain ways of applying critical thinking in everyday decisions

## CRITICAL THINKING MASTER LEVEL

### KNOWLEDGE

Describe advanced sustainability practices and analyze how they can be scaled locally

Assess how critical thinking can contribute to long-term implementation of local sustainability efforts

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### SKILLS

Present critical thinking-based solutions in simple and clear ways to inspire community action

Teach peers how to apply critical thinking when assessing environmental decisions and policies

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### ATTITUDES

Commit to continual improvement in critical thinking skills and their application to sustainability

Support a community culture that values evidence-based decisions and critical enquiry

Model consistent use of critical thinking to solve real-world problems and inspire others to do the same



## CRITICAL THINKING ROOKIE LEVEL

### KNOWLEDGE

Define critical thinking and explain its role in making eco-conscious decisions.

Describe how critical thinking helps in understanding and navigating moral questions related to sustainability.



Describe ways to identify reliable sources of information to assess green initiatives.

### SKILLS

Find local eco-friendly initiatives and discuss their actual impact on the environment.

Use questions to critically examine the benefits and drawbacks of green projects.

Recognize biases in public eco-friendly choices by analyzing underlying beliefs.



### ATTITUDES

Value diverse viewpoints by actively listening and considering different perspectives.

Demonstrate curiosity about how critical thinking influences decision-making processes.



Commit to using evidence and data as the foundation for eco-conscious choices.

## CRITICAL THINKING ADVANCED LEVEL

### KNOWLEDGE

Identify examples of how critical thinking can be used to address simple sustainability challenges.

Discuss how global eco-policies address specific environmental issues and suggest improvements.



Compare strategies how to identify reliable information sources and avoid misinformation.

### SKILLS

Create simple arguments supported by evidence to promote effective green initiatives.

Break down environmental issues into manageable parts to understand their causes and effects.

Organize small group discussions to analyze environmental challenges using critical thinking.



### ATTITUDES

Encourage others to think critically and contribute ideas in collaborative discussions.

Encourage open-mindedness by asking simple questions and ensuring everyone's ideas are respected in discussions.



Explain ways of applying critical thinking in everyday decisions.

## CRITICAL THINKING MASTER LEVEL

### KNOWLEDGE

Describe advanced sustainable practices and analyze how they can be applied locally.

Assess how critical thinking can contribute to long-term improvements in local sustainability efforts.



Evaluate in detail the strengths and weaknesses of different environmental initiatives.

### SKILLS

Present critical thinking-based solutions in simple and clear ways to inspire community action.

Teach peers how to apply critical thinking when assessing environmental decisions and policies.

Lead group projects to develop practical solutions for local environmental issues using critical thinking.



### ATTITUDES

Commit to continual improvement in critical thinking skills and their application to sustainability.

Support a community culture that values evidence-based decisions and critical analysis.



Model consistent use of critical thinking to solve real-world problems and inspire others to do the same.

# EXPLORATORY THINKING ROOKIE LEVEL

## KNOWLEDGE

Define the fundamental concepts of exploratory thinking and its role in sustainability

Identify the principles of sustainable innovation and how they inspire new ideas



Describe basic scenario planning techniques for addressing environmental challenges

## SKILLS

Practice brainstorming techniques to come up with simple eco-friendly ideas

Explore one or two examples of green technologies and their uses

Try out basic prototyping methods to test small sustainable concepts



## ATTITUDES

Describe openness to exploring simple eco-friendly possibilities

Demonstrate curiosity about how sustainable technologies can improve daily life



Take responsibility for trying small green practices in everyday tasks

# EXPLORATORY THINKING ADVANCED LEVEL

## KNOWLEDGE

Explain sustainable innovation strategies and their application in various fields



Analyze global sustainability initiatives and their use of exploratory thinking

Discuss methods to nurture eco-consciousness and creativity in individuals and groups

## SKILLS

Lead or be part of a small group discussions to brainstorm and test eco-friendly ideas

Create simple sustainable concepts with feedback from others to make them better

Introduce exploratory thinking to small-scale educational or community activities



## ATTITUDES

Promote ethical exploration by encouraging small, responsible decisions in projects

Value the input of others constructively & ensure everyone can share their ideas during discussions



Appreciate simple, creative solutions to sustainability challenges & their impact

# EXPLORATORY THINKING MASTER LEVEL

## KNOWLEDGE

Compare different processes of exploratory thinking, evaluate how they can be applied to take sustainable solutions in local communities



Assess global exploratory sustainability agendas and identify opportunities for meaningful contributions

Examine current practices in exploratory sustainable education & their impact on program change

## SKILLS

Participate in teams to use exploratory approaches for solving practical sustainability problems

Plan small strategies include exploratory thinking in ongoing local projects

Explain exploratory ideas in simple terms to help others understand and apply them



## ATTITUDES

Advocate for diversity, equity, and inclusion in exploratory sustainability efforts

Pursue ways for lifelong learning and continuous improvement in exploratory thinking for sustainability



Show others how exploratory and creativity can lead to better sustainability practices

## EXPLORATORY THINKING ROOKIE LEVEL

### KNOWLEDGE

Define the fundamental concepts of exploratory thinking and its role in sustainability

Identify the principles of sustainable innovation and how they inspire new ideas



Describe basic scenario planning techniques for addressing environmental challenges

### SKILLS

Practice brainstorming techniques to come up with simple eco-friendly ideas

Explore one or two examples of green technologies and their uses

Try out basic prototyping methods to test small sustainable concepts



### ATTITUDES

Describe openness to exploring simple eco-friendly possibilities

Demonstrate curiosity about how sustainable technologies can improve daily life



Take responsibility for trying small green practices in everyday tasks

## EXPLORATORY THINKING ADVANCED LEVEL

### KNOWLEDGE

Explain sustainable innovation strategies and their application in various fields



Analyze global sustainability initiatives and their use of exploratory thinking

Discuss methods to nurture eco-consciousness and creativity in individuals and groups

### SKILLS

Lead or be part of a small group discussions to brainstorm and test eco-friendly ideas

Create simple sustainable concepts with feedback from others to make them better

Introduce exploratory thinking to small-scale educational or community activities



### ATTITUDES

Promote ethical exploration by encouraging small, responsible decisions in projects

Value the input of others constructively & ensure everyone can share their ideas during discussions



Appreciate simple, creative solutions to sustainability challenges & their impact

## EXPLORATORY THINKING MASTER LEVEL

### KNOWLEDGE

Compare different processes of exploratory thinking, evaluate how they can be applied to take sustainable solutions in local communities

Assess global exploratory sustainability agendas and identify opportunities for meaningful contributions



Evaluate practices in exploratory sustainable education & their impact on program change

### SKILLS

Participate in teams to use exploratory approaches for solving practical sustainability problems

Plan small strategies include exploratory thinking in ongoing local projects

Explain exploratory ideas in simple terms to help others understand and apply them



### ATTITUDES

Advocate for diversity, equity, and inclusion in exploratory sustainability efforts

Pursue ways for lifelong learning and continuous improvement in exploratory thinking for sustainability



Show others how exploratory and creativity can create better sustainability practices



## EXPLORATORY THINKING ROOKIE LEVEL

### KNOWLEDGE

Define the fundamental concepts of exploratory thinking and its role in sustainability

Identify the principles of sustainable innovation and how they inspire new ideas



Describe basic scenario planning techniques for addressing environmental challenges

### SKILLS

Practice brainstorming techniques to come up with simple eco-friendly ideas

Explore one or two examples of green technologies and their uses

Try out basic prototyping methods to test small sustainable concepts



### ATTITUDES

Describe openness to exploring simple eco-friendly possibilities

Demonstrate curiosity about how sustainable technologies can improve daily life



Take responsibility for trying small green practices in everyday tasks

## EXPLORATORY THINKING ADVANCED LEVEL

### KNOWLEDGE

Explain sustainable innovation strategies and their application in various fields



Analyze global sustainability initiatives and their use of exploratory thinking

Discuss methods to nurture eco-consciousness and creativity in individuals and groups

### SKILLS

Lead or be part of a small group discussions to brainstorm and test eco-friendly ideas

Create simple sustainable concepts with feedback from others to make them better

Introduce exploratory thinking to small-scale educational or community activities



### ATTITUDES

Promote ethical exploration by encouraging small, responsible decisions in projects

Value the input of others constructively & ensure everyone can share their ideas during discussions



Appreciate simple, creative solutions to sustainability challenges & their impact

## EXPLORATORY THINKING MASTER LEVEL

### KNOWLEDGE

Compare different models of exploratory thinking, evaluate how they can be applied to for sustainable solutions in local communities



Assess global exploratory sustainability agendas and identify opportunities for meaningful contributions

Examine best practices in exploratory sustainable education & their impact on long-term change

### SKILLS

Participate in teams to use exploratory approaches for solving practical sustainability problems

Plan small strategies to include exploratory thinking in ongoing local projects

Explain exploratory ideas in simple terms to help others understand and apply them



### ATTITUDES

Advocate for diversity, equity, and inclusion in exploratory sustainability efforts

Propose way for lifelong learning and continuous improvement in exploratory thinking for sustainability



Show others how exploration and creativity can lead to better sustainability practices

# FUTURES THINKING

## ROOKIE LEVEL

### KNOWLEDGE

Express how today's choices affect the future  
& why thinking about future makes better decisions today



Name current trends that could shape  
what's next

Explain what the future could look like  
based on current trends

### SKILLS

Give examples of different futures by creating  
simple "what if" scenarios

Practice identifying trends in everyday life  
that might shape the future, like changes in  
technology f.e.

Form connections between different  
parts of a system (resources, climate  
change), draw simple diagrams or  
maps



### ATTITUDES

List ways how to support your curiosity and  
open-mindedness about the future

Recognize that the future is uncertain & it's  
okay to adapt as things change

Practise expressing optimism &  
hope for what's ahead



# FUTURES THINKING

## ADVANCED LEVEL

### KNOWLEDGE

Create a story about technological progress,  
demographic shifts & environmental changes

Assess how complex systems work,  
including feedback loops & tipping points

Identify global challenges & how they  
shape future scenarios



### SKILLS

Summarize & assess future scenarios to  
identify risks and opportunities

Develop planning skills to make long-term  
decisions, considering what's best for both  
you and the planet

Create a timeline of possible future  
events, mapping out how current  
actions might lead to different long-  
term outcomes



### ATTITUDES

Practice long-term thinking: focus on how your  
actions today can affect people, the  
environment & society in the future

Justify how small actions can lead to big  
changes over time

Support diversity, recognize that  
solving future challenges requires  
different ideas



# FUTURES THINKING

## MASTER LEVEL

### KNOWLEDGE

Bring together ideas from various disciplines:  
technology, environment & judge how they  
affect each other & shape the future

Scale reasoning, understand how thinking  
about the future helped to change how  
we see environmental problems

Evaluate the use of different tools for  
predicting future scenarios



### SKILLS

Develop future scenarios that focus on big  
global challenges like climate change,  
inequality, or technological change

Use digital tools to create models of  
possible futures and compare the effects  
of different decisions

Compare different tools for predicting  
future scenarios, like using data,  
technology, or simulations



### ATTITUDES

Practice flexibility: be ready to change plans  
when you get new information or face  
challenges

Internalize commitment to continuous learning

Act with ethical responsibility for  
decisions that impact future  
generations



## FUTURES THINKING ROOKIE LEVEL

### KNOWLEDGE

Express how today's choices affect the future & why thinking about future makes better decisions today



Recognize current trends that could shape what's next

Explain what the future could look like based on current trends

### SKILLS

Give examples of different futures by creating simple "what if" scenarios

Practice identifying trends in everyday life that might shape the future, like changes in technology, etc.

Form connections between different parts of a system (resources, climate change); draw simple diagrams or maps



### ATTITUDES

List ways how to support your curiosity and open-mindedness about the future

Recognize that the future is uncertain & it's okay to adapt as things change

Practice expressing optimism & hope for what's ahead



## FUTURES THINKING ADVANCED LEVEL

### KNOWLEDGE

Create a story about technological progress, demographic shifts & environmental changes

Assess how complex systems work, including feedback loops & tipping points



Identify global challenges & how they shape future scenarios

### SKILLS

Summarize & assess future scenarios to identify risks and opportunities

Develop planning skills to make long-term decisions, considering what's best for both you and the planet

Create a timeline of possible future events, mapping out how current actions might lead to different long-term outcomes



### ATTITUDES

Practise long-term thinking, focus on how your actions today can affect people, the environment & society in the future

Justify how small actions can lead to big changes over time



Support diversity, recognize that solving future challenges requires different ideas

## FUTURES THINKING MASTER LEVEL

### KNOWLEDGE

Bring together ideas from various disciplines: technology, environment & judge how they affect each other & shape the future



Scale reasoning, understand how thinking about the future helped to change how we live or work or how we act

Explore the role of different tools for predicting future scenarios

### SKILLS

Develop future scenarios that focus on big global challenges like climate change, inequality, or technological change

Use digital tools to create models of possible futures and compare the effects of different decisions

Compare different tools for predicting future scenarios, like using data, technology, or simulations



### ATTITUDES

Practice flexibility & be ready to change plans when you get new information or face challenges

Internalize commitment to continuous learning



Act with ethical responsibility for decisions that impact future generations

## FUTURES THINKING ROOKIE LEVEL

### KNOWLEDGE

Express how today's choices affect the future & why thinking about future, meaningful decisions today



Recognize trends that could shape what's next

Explain what the future could look like based on current trends

### SKILLS

Give 4 complementary futures by creating simple "what if" scenarios

Practice identifying trends in everyday life that might shape the future (e.g. changes in technology)

Form connections between different parts of a system (sources, climate change, and simple diagrams or maps)



### ATTITUDES

Use ways how to support your curiosity and open-mindedness about the future

Recognize that the future is uncertain & it's okay to adapt as things change

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## FUTURES THINKING ADVANCED LEVEL

### KNOWLEDGE

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Assess how complex systems work, including feedback loops & tipping points

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### SKILLS

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Develop planning skills to make long-term decisions, considering what's best for both you and the planet

Create a timeline of possible future events, mapping out how current actions might lead to different long-term outcomes



### ATTITUDES

Practice long-term thinking, focus on how your actions today can affect people, the environment & society in the future

Justify how small actions can lead to big changes over time



Support diversity, recognize that solving future challenges requires different ideas

## FUTURES THINKING MASTER LEVEL

### KNOWLEDGE

Bring together ideas from various areas (science, technology, environment) & judge how they affect each other & shape the future



Score real-world examples of how thinking about the future has led to changes (new laws or environmental projects)

Evaluate the role of different tools for predicting future scenarios,

### SKILLS

Develop future scenarios that focus on big global challenges like climate change, inequality, or technological change

Use digital tools to create models of possible futures and compare the effects of different decisions

Compare different tools for predicting future scenarios, like using data, technology, or simulations



### ATTITUDES

Practice flexibility & be ready to change plans when you get new information or face challenges

Internalize commitment to continuous learning



Act with ethical responsibility for decisions that impact future generations



# STRATEGIC & ACTION ORIENTED THINKING ROOKIE LEVEL

## KNOWLEDGE

Define strategic thinking and explain its importance in achieving sustainability goals

Describe how to align simple objectives with broader sustainability priorities



Explain the basics of environmental impact assessment and why it matters

## SKILLS

Identify and practice setting SMART goals for small sustainability projects

Use basic techniques to organize and execute very simple eco-friendly activities with clear objectives

Practice asking friends or family for ideas on how to help the local environment



## ATTITUDES

Appreciate verbally creative and simple ideas for solving environmental problems

Show willingness to think about the environment when making plans



Practise teamwork by involving others in easy eco-friendly activities

# STRATEGIC & ACTION ORIENTED THINKING ADVANCED LEVEL

## KNOWLEDGE

Explain how strategic thinking contributes to eco-conscious management in businesses & organizations

Summarize lessons from international eco-friendly projects & how they can inspire local efforts

Identify ethical considerations in applying strategic thinking to sustainability challenges



## SKILLS

Lead a small group to brainstorm ideas for a simple local environmental improvement

Identify risks in an eco-friendly activity and suggest easy ways to avoid problems, like using proper tools

Help create a small project, like a composting bin, that others can join in using



## ATTITUDES

Respect different opinions in group discussions about small sustainability efforts

Display openness to learning and improving ways to solve environmental challenges



Encourage others to take simple actions that reduce environmental harm

# STRATEGIC & ACTION ORIENTED THINKING MASTER LEVEL

## KNOWLEDGE

Analyze advanced models of strategic sustainable business practices and their applications

Research how strategic thinking can guide long-term environmental and social improvements



Evaluate the global strategic sustainability agenda: their relevance locally & how to contribute

## SKILLS

Guide/be part of a group to include basic sustainable ideas in a school or community project

Work with others to design a simple plan for solving a common environmental issue like saving water

Come up with creative ways to make an existing project more eco-friendly



## ATTITUDES

Show others how to include everyone's ideas in small sustainability plans

Commit to turning simple ideas into actions that help the environment



Inspire others to think about how their actions can make a difference for sustainability

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# ENVIRONMENTAL JUSTICE ROOKIE LEVEL

## KNOWLEDGE

Describe examples of what it means to have a clean and healthy environment

Explain how decisions impact different communities, especially vulnerable groups

List key environmental policies in your community and explain their purpose



## SKILLS

Identify local environmental groups or forums and describe how to participate in their activities

Participate in small actions, like organizing a litter clean-up or helping to plant trees

Propose questions about environmental decisions in your area



## ATTITUDES

Show appreciation for actions that promote well-being for people and the planet

State examples of care for the well-being of both people and our planet

Consider different viewpoints on the environment with an open heart



# ENVIRONMENTAL JUSTICE ADVANCED LEVEL

## KNOWLEDGE

Compare methods used to promote fairness and equality in environmental policies

Analyze examples of environmental injustices in your region and explain their causes

Summarize practices that contribute to sustainable community development



## SKILLS

Speak up for fairness, support campaigns for equal access to clean air, water & green spaces for all

Organize or join workshops at school or in your community about environmental justice

Use social media to spread awareness about environmental injustices you notice locally



## ATTITUDES

Show dedication to learning about environmental justice by actively engaging in events or discussions

Commit to inclusive thinking, consider how environmental decisions impact different groups

Explain the importance of justice from local projects to policy decisions



# ENVIRONMENTAL JUSTICE MASTER LEVEL

## KNOWLEDGE

Assess how environmental injustices affect equity, suggest solutions to local contexts

Compare corporate practices of global sustainability principles with a focus on justice

Evaluate the effectiveness of green initiatives and propose improvements



## SKILLS

Design or lead a local initiative for environmental change, create an awareness campaign

Collaborate with local businesses or organizations to promote fair and sustainable practices

Help others how to participate in environmental justice actions



## ATTITUDES

Demonstrate fairness in all your actions, so that justice & equity are central to every decision

Argue the importance of diversity and equity in the environmental space

Advocate for diversity and equity by promoting tailored solutions for different communities



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Explain the importance of justice from local projects to policy decisions

# ENVIRONMENTAL JUSTICE MASTER LEVEL

## KNOWLEDGE

Assess how international agendas address inequity, suggest applications to local contexts

Compare corporate practices & global sustainability principles with a focus on justice

Evaluate the effectiveness of global initiatives and propose improvements

## SKILLS

Design or lead a local initiative for environmental changes, create an awareness campaign

Collaborate with local businesses or organizations to promote fair and sustainable practices

Mentor others how to participate in environmental justice actions

## ATTITUDES

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## POLITICAL AGENCY ROOKIE LEVEL

### KNOWLEDGE

Find out how basic political systems work, who makes decisions at schools or in local government



Identify the role & importance of local laws

Identify simple ways you can participate, like signing a petition or attending a community meeting

### SKILLS

Practice speaking up in class or group settings, sharing your ideas confidently

Participate in discussions on topics like fairness or environmental issues, express your views respectfully

Trace local activities that improve your community which you could join



### ATTITUDES

Follow the rules & policies, understanding they help communities run smoothly

Dedication to fight for fairness and equality in green policies



Choose fairness, believing that everyone should have a say in things that affect them

## POLITICAL AGENCY ADVANCED LEVEL

### KNOWLEDGE

Review global challenges, such as climate change and social equality, and how they connect to politics

Examine the importance of fair representation, seeing why everyone should have a voice in decision-making

Assess ways that youth can influence policies, like through advocacy or joining youth councils



### SKILLS

Prepare a small campaign on an issue you care about

Participate in youth-led forums or school councils where you can contribute to local decision-making

Analyze different perspectives by researching various viewpoints on political topics



### ATTITUDES

Defend diverse perspectives, seeing the strength in bringing different voices together

Give examples of active participation, understand that your involvement matters



Argue as a global citizen, caring about both local and worldwide issues

## POLITICAL AGENCY MASTER LEVEL

### KNOWLEDGE

Compare various political strategies used to influence policy, like climate action or human rights

Assess ways to influence policy at higher levels, through active initiatives or legislation

Analyze how global policies impact your community



### SKILLS

Develop a policy proposal on an issue that impacts you & present it to a relevant group

Design how to use social media to raise awareness, creating posts or campaigns that educate others

Evaluate the impacts of a community initiative, successes & areas for improvement



### ATTITUDES

Practice lifelong learning, staying curious and informed about political issues and how they impact society

Propose long-term solutions, thinking about how today's choices affect future generations



Act as a leader, demonstrating respect, fairness, and inclusivity in all actions

## POLITICAL AGENCY ROOKIE LEVEL

### KNOWLEDGE

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## POLITICAL AGENCY MASTER LEVEL

### KNOWLEDGE

Compare various political structures used to governing, how like democratic system or human rights

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Act as a leader, demonstrating respect, fairness, and inclusivity in all actions



## POLITICAL AGENCY ROOKIE LEVEL

### KNOWLEDGE

Find out how laws, policies, systems work, who makes decisions at schools or in local government



Identify the role & importance of local laws

Identify simple ways you can participate, like signing a petition or attending a community meeting

### SKILLS

Practice speaking up in class or group settings, sharing your ideas confidently

Participate in discussion on topics like climate or environmental issues, express your views respectfully

Track local activities that improve your community which you could join



### ATTITUDES

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### KNOWLEDGE

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### ATTITUDES

Practice lifelong learning, staying curious and informed about political issues and how they impact society

Propose long-term solutions, thinking about how today's choices affect future generations



Act as a leader, demonstrating respect, fairness, and inclusivity in all actions



# WORKING WITH AI

## ROOKIE LEVEL

### KNOWLEDGE

Describe what AI is & how it is used in simple daily tasks (voice assistants, recommendations on social media)

Explain the basics of how AI systems work, & the concepts of data & algorithms



Identify AI role in entertainment, health & transportation

### SKILLS

Use basic AI tools, as voice assistants (Siri, Alexa) or search engines, to improve daily efficiency

Explore beginner AI apps (like chatbots or language translators), see how they can help with daily life

Start experimenting with simple AI-based platforms - online tools to generate art or text



### ATTITUDES

Show curiosity about how AI works & explore its possibilities with an open mind

Accept seeing AI as a tool that can improve life & solve problems in creative ways



Describe the importance of ethics, recognizing that AI should be used responsibly & fairly

# WORKING WITH AI

## ADVANCED LEVEL

### KNOWLEDGE

Summarize how machine learning & the process of training a model with data works

Discuss ethical challenges in AI, such as biases in algorithms and the need for fairness



Inspect how AI is applied in industries like medicine, agriculture, and sustainability

### SKILLS

Try out AI tools for specific tasks - image recognition apps, AI-powered tools to edit videos or music

Participate in online courses or tutorials that introduce you to coding with AI

Collaborate with peers on small projects using AI apps (building a simple chatbot with a user-friendly AI tool)



### ATTITUDES

Be motivated to explore & experiment AI's potential and how it can create positive change

Identify the value of collaboration, understand that AI is most powerful when people from different backgrounds work together



Share the awareness of the ethical responsibilities when using AI

# WORKING WITH AI

## MASTER LEVEL

### KNOWLEDGE

Evaluate advanced applications - AI in autonomous vehicles, AI in solving climate change issues

Analyze AI's influence on society & the future of work, the risks & benefits of widespread AI adoption



Examine local policies & measures about AI regulation

### SKILLS

Lead small projects using simple AI tools - build basic AI-powered apps or games

Create solutions using AI for community or educational projects

Mentor peers on how to use AI tools & show them how AI can help solve problems in creative ways



### ATTITUDES

Adopt a growth mindset, see AI as an evolving field where you will continue learning & adapting

Demonstrate responsibility when using AI, ensuring that tools are inclusive, fair, and beneficial to society



Inspire others by demonstrating how AI can be used to make a positive impact



## WORKING WITH AI ROOKIE LEVEL

### KNOWLEDGE

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Explain the basics of how AI systems work, & the concepts of data & algorithms



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### KNOWLEDGE

Describe what AI is & how it is used in simple daily tasks (voice assistants, recommendation, social media)

Explain the basics of how AI systems work, & the concept of data & algorithms

 Identify AI use in entertainment, health, transportation

### SKILLS

Use basic AI tools, or voice assistants like Alexa or Siri, to improve daily efficiency

Explore beginner AI apps like chatbots or language translators, see how they can help with daily life

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### ATTITUDES

Adopt a growth mindset, see AI as an evolving field where you will continue learning & adapting

Demonstrate responsibility when using AI, ensuring that tools are inclusive, fair, and beneficial to society



Inspire others by demonstrating how AI can be used to make a positive impact

# INFORMATION AND TECHNOLOGY

## ROOKIE LEVEL

### KNOWLEDGE

List actions for maintaining respectful online interactions, (as reporting inappropriate content) and avoiding cyberbullying



Compare the features of popular social media platforms and evaluate how to use them safely and positively

Illustrate how to protect personal information online

### SKILLS

Practice basic computer literacy skills, typing, file management, using software like Microsoft Word, Excel & PowerPoint

Use a smartphone, tablet, or computer to complete everyday tasks like sending emails or searching online

Explore coding basics through platforms like Scratch or Code.org, applying simple programming logic



### ATTITUDES

Show curiosity in exploring digital tools and technologies

Demonstrate responsibility by practicing safe and ethical online behavior



List ways to how to engage respectfully in digital spaces

# INFORMATION AND TECHNOLOGY

## ADVANCED LEVEL

### KNOWLEDGE

Explain the importance of digital privacy and demonstrate how to manage online privacy settings effectively



Describe basic concepts in cybersecurity, such as encryption and malware protection, and their application

Summarize the use of data visualization tools to present analyzed datasets

### SKILLS

Apply intermediate digital tools, such as graphic design software or video editing programs, to create content

Use cybersecurity practices, setting strong passwords & recognizing phishing attempts, to protect your online assets

Develop research skills by analyzing, synthesizing and critically evaluating digital information



### ATTITUDES

Defend continuous learning in digital technologies to adapt to new developments

Plan ways how to encourage others to use technology responsibly and collaboratively



Demonstrate ethical use of technology, prioritizing individual and societal well-being

# INFORMATION AND TECHNOLOGY

## MASTER LEVEL

### KNOWLEDGE

Elaborate on digital privacy concepts, including big data processing and smart contract programming



Evaluate emerging technologies such as AI, blockchain, and IoT, understanding their potential applications

Assess the societal impacts of technological innovations

### SKILLS

Develop basic web logic or applying beginner-friendly programming platforms like Scratch or MIT App Inventor to build functional trading bots

Organize & review smart datasets using basic tools like spreadsheets, data visualization to identify patterns & trends

Lead or collaborate on group technological projects, co-creating solutions with diverse talents



### ATTITUDES

Model innovative problem-solving by approaching tech challenges with creativity and resilience

Propose ways how to act as a global citizen, promoting equitable access to technology for all



Encourage peers to use technology ethically and inclusively in their daily activities and group projects



# INFORMATION AND TECHNOLOGY ROOKIE LEVEL

## KNOWLEDGE

List actions for maintaining respectful online interactions, (as reporting inappropriate content) and avoiding cyberbullying



Compare the features of popular social media platforms and evaluate how to use them safely and positively

Illustrate how to protect personal information online

## SKILLS

Practice basic computer literacy skills, typing, file management using software like Microsoft Word, Excel & PowerPoint

Use a smartphone, tablet, or computer to complete everyday tasks like sending emails or searching online

Explore coding basics through platforms like Scratch or Code.org, applying simple programming logic



## ATTITUDES

Show curiosity in exploring digital tools and technologies

Demonstrate responsibility by practicing safe and ethical online behavior



List ways to how to engage respectfully in digital spaces

# INFORMATION AND TECHNOLOGY ADVANCED LEVEL

## KNOWLEDGE

Explain the importance of digital privacy and demonstrate how to manage online privacy settings effectively



Describe basic concepts in cybersecurity, such as encryption and malware protection, and their application

Summarize the use of data visualization tools to present analyzed datasets

## SKILLS

Apply intermediate digital tools, such as graphic design software or video editing programs, to create content

Use cybersecurity practices, setting strong passwords & recognizing phishing attempts, to protect your online assets

Develop research skills by analyzing, synthesizing, and critically evaluating digital information



## ATTITUDES

Defend continuous learning in digital technologies to adapt to new developments

Plan ways to encourage others to use technology responsibly and collaboratively



Demonstrate ethical use of technology, prioritizing individual and societal well-being

# INFORMATION AND TECHNOLOGY MASTER LEVEL

## KNOWLEDGE

Elaborate on digital privacy concepts, including big data, tracking and smart contract, protecting



Elaborate on emerging technologies such as AI, blockchain, and IoT, understanding their potential opportunities

Assess the societal impacts of technological innovations

## SKILLS

Develop basic web logic or applying beginner-friendly programming platforms like Scratch or MIT App Inventor to build functional trading bots

Organize & review smart datasets using basic tools like spreadsheets, data visualization to identify patterns & trends

Lead or collaborate on group technological projects, co-creating solutions with diverse talents



## ATTITUDES

Model innovative problem-solving by approaching tech challenges with creativity and resilience

Propose ways to act as a global citizen, promoting equitable access to technology for all



Encourage peers to use technology ethically and inclusively in their daily activities and group projects

# INFORMATION AND TECHNOLOGY

## ROOKIE LEVEL

### KNOWLEDGE

List examples for maintaining respectful online interactions, like reporting inappropriate content and avoiding cyberbullying



Compare the features of popular social media platforms and evaluate how to use them safely and positively

Illustrate how to protect personal information online

### SKILLS

Develop basic computer literacy skills, typing, file management using software like Microsoft Word, Excel & PowerPoint

Use a smartphone, tablet, or computer to complete everyday tasks like sending emails or searching online

Explore coding basics through platforms like Scratch or Code.org, applying simple programming logic

### ATTITUDES

Show curiosity in exploring digital tools and technologies

Demonstrate responsibility by practicing safe and ethical online behavior



List ways to how to engage respectfully in digital spaces

# INFORMATION AND TECHNOLOGY

## ADVANCED LEVEL

### KNOWLEDGE

Explain the importance of digital privacy and demonstrate how to manage online privacy settings effectively



Describe basic concepts in cybersecurity, such as encryption and malware protection, and their application

Summarize the use of data visualization tools to present analyzed datasets

### SKILLS

Apply intermediate digital tools, such as graphic design software or video editing programs, to create content

Use cybersecurity practices, setting strong passwords & recognizing phishing attempts, to protect your online assets

Develop research skills by analyzing, synthesizing and critically evaluating digital information

### ATTITUDES

Defend continuous learning in digital technologies to adapt to new developments

Plan ways how to encourage others to use technology responsibly and collaboratively



Demonstrate ethical use of technology, prioritizing individual and societal well-being

# INFORMATION AND TECHNOLOGY

## MASTER LEVEL

### KNOWLEDGE

Explain advanced data science techniques, including big data processing and smart contract programming

Evaluate emerging technologies like AI, blockchain, and IoT, understanding their potential applications



Assess the societal impacts of technological innovations

### SKILLS

Develop basic web pages or apps using beginner-friendly programming platforms (Scratch or MIT App Inventor) to build foundational coding skills

Organize & review small datasets using basic tools (spreadsheets, data visualization) to identify patterns & trends

Lead or collaborate on group technological projects, co-creating solutions with diverse teams



### ATTITUDES

Model innovative problem-solving by approaching tech challenges with creativity and resilience

Propose ways how to act as a global citizen, promoting equitable access to technology for all



Encourage peers to use technology ethically and inclusively in their daily activities and group projects




# Conclusion

The Framework of Earth Competences is designed to be easy to use and adaptable, helping people understand and practice sustainability in everyday life. It's not just theory—it's a practical guide that can be applied directly in education, policy-making, personal growth, and even career training.

But this Framework isn't only for learners or educators. It works equally well across different areas, including job training, corporate sustainability programs, and personal skills development. Because it's flexible, the Framework easily fits into educational courses, professional workshops, and self-assessment tools.

Importantly, this Framework can inspire broader social change by encouraging people everywhere to commit to sustainability and environmental responsibility. By using its principles, individuals and organizations alike can play a meaningful part in building a healthier planet.



Ultimately, the Framework of Earth Competences offers a practical path toward a more sustainable future—one competence at a time.

## **Inspirational materials**

<https://www.ecoschools.global/trash-hack-ideas>

<https://eplca.jrc.ec.europa.eu/ConsumerFootprint.html>

<https://fridaysforfuture.org/>

<https://rebellion.global/>

<https://klimaatadaptatiegroningen.nl/en/young-people-call-on-world-leaders-to-adapt-for-the-future>

# Sources

## ***Broadening the Application of the Sustainability Science Approach***

*(<https://en.unesco.org/sustainability-science>)*

*Sustainability science has emerged as a new academic discipline in the last decade. It provides a new approach to deal with complex, long-term global issues, such as human-induced climate and ecosystem changes, from broad perspectives. It also aims to promote solutions that contribute to rebuilding a sound relationship between human society and the environment (i.e. coupled social-ecological systems). An enhanced interface between academia and practitioners is vital to develop and implement such solutions. Strengthening connections between a variety of stakeholders - including governments, think tanks, the private sector, NGOs and other civil society actors - is required to support good governance for a sustainable society and reach the full potential of sustainability science. The international UNESCO project “Broadening the Application of the Sustainability Science Approach” was initiated in October 2015 with the support of the Japanese Ministry of Education, Culture, Sports, Science and Technology (Japan/MEXT) to identify good practices and develop guidelines to help Member States harness the potential of sustainability science in their sustainable development strategies.*

## **Ocean Literacy Portal**

*(<https://oceanliteracy.unesco.org/?post-types=all&sort=popular>)*

*Knowing and understanding the ocean's influence on us, and our influence on the ocean is crucial to living and acting sustainably. This is the essence of ocean literacy. The Ocean Literacy Portal serves as a one-stop shop, providing resources and content available to all, with the goal of creating an ocean-literate society able to make informed and responsible decisions on ocean resources and ocean sustainability.*

*Here you will find the necessary Ocean Literacy resources to develop knowledge, skills, values and behaviours needed to create an ocean literate community. A collection of education and information resources, projects, tools, methods, reports, programs and materials regarding global ocean knowledge, useful to understand ocean processes, functions and issues.*

*The Ocean Literacy Portal is a universal sharing platform. By sharing the world's ocean knowledge, we are committed to building a global ocean movement to protect the planet on which we live.*



***Interdisciplinary Approaches for Sustainable Development Goals. Economic Growth, Social Inclusion and Environmental Protection.***

*Editors: Tymon Zielinski, Iwona Sagan, Waldemar Surosz*

*Part of the book series: GeoPlanet: Earth and Planetary Sciences (GEPS)*

*<https://link.springer.com/book/10.1007/978-3-319-71788-3>*

*Presents an overview of how the environment, such as marine ecosystems, is responding to climate change. It also provides state-of-the art approaches and methods for studying environmental changes, including human factors. The publication contributes to the timely discussion on global environmental change.*

*Sala, A., Punie, Y., Garkov, V. & Cabrera Giraldez, M., 2020. LifeComp: The European Framework for Personal, Social and Learning to Learn Key Competence. Joint Research Centre, European Commission. Available at <https://ec.europa.eu/jrc/en/lifecomp>*

*Bacigalupo, M., Kampylis, P., Punie, Y., & Van den Brande, G., 2016. EntreComp: The Entrepreneurship Competence Framework. Joint Research Centre, European Commission. Available at <https://publications.jrc.ec.europa.eu/repository/bitstream/JRC101581/lfna27939enn.pdf>*

*Sala, A., Punie, Y., Garkov, V. & Cabrera Giraldez, M., 2020. LifeComp: The European Framework for Personal, Social and Learning to Learn Key Competence. Joint Research Centre, European Commission. Available at <https://ec.europa.eu/jrc/en/lifecomp>*

*Flint, R. W., McCarter, W., & Bonniwell, T., 2000. Interdisciplinary education in sustainability: links in secondary and higher education: The Northampton Legacy Program. International Journal of Sustainability in Higher Education.*

*Giangrande, N., White, R. M., East, M., Jackson, R., Clarke, T., Saloff Coste, M., & Penha-Lopes, G., 2019. A competency framework to assess and activate education for sustainable development: Addressing the UN sustainable development goals 4.7 challenge. Sustainability, 11(10), 2832.*

*Kearins, K., & Springett D., 2003. Educating for sustainability: developing critical skills. Journal of management education 27(2):188–204.*

*Bianchi, G., 2020. Sustainability competences, Joint Research Centre, European Commission. Available at <https://publications.jrc.ec.europa.eu/repository/handle/JRC123624>*

*European Commission, 2020. Circular Economy Action Plan: For a cleaner and more competitive Europe. Available at [https://ec.europa.eu/environment/topics/circular-economy/first-circular-economy-action-plan\\_en](https://ec.europa.eu/environment/topics/circular-economy/first-circular-economy-action-plan_en)*

*Von Der Leyen, U., 2021. 2021 State of the Union Address. Available at [https://ec.europa.eu/commission/presscorner/detail/ov/SPEECH\\_21\\_4701](https://ec.europa.eu/commission/presscorner/detail/ov/SPEECH_21_4701)*

*European Commission, 2021. Special Eurobarometer 513 – Climate Change. Available at <https://europa.eu/eurobarometer/surveys/detail/2273>*

*Barth, M., Godemann, J., Rieckmann, M., & Stoltenberg, U., 2007. Developing key competencies for sustainable development in higher education. International Journal of sustainability in higher education.*

*UNESCO. Futures literacy. Available at <https://en.unesco.org/futuresliteracy/about>*

*Source OpenAI. "Descriptions of Competences for Earth Competence Framework." ChatGPT by OpenAI.*

*[https://www.have.hku.hk/creativity#:~:text=Creativity%20competence%20is%20the%20ability,Runco%20%26%20Jaeger%2C%202012\).](https://www.have.hku.hk/creativity#:~:text=Creativity%20competence%20is%20the%20ability,Runco%20%26%20Jaeger%2C%202012).) 22.8.2024*

*Database of sustainability-related competency models that guided our work:*

### ***Key competencies in sustainability in higher education***

*<https://link.springer.com/article/10.1007/s11625-020-00838-2>*

*This study explores convergence on competencies for sustainability programs. It has conducted a Delphi study with 14 international experts in sustainability education on the framework of key competencies in sustainability by Wiek et al. , the most frequently cited framework to date. The refined framework can inform program development, implementation, and evaluation to enhance employability of graduates and facilitate comparison of sustainability programs worldwide.*



***OECD Social, Employment and Migration Working Papers No. 275, The environmental sustainability competence toolbox: From leaving a better planet for our children to leaving better children for our planet***

*<https://www.oecd.org/publications/the-environmental-sustainability-competence-toolbox-27991ec0-en.htm>*

*The paper combines a developmental perspective with a subjective and child-centered perspective to identify the characteristics of young people who achieve given benchmarks across all areas that characterize environmental sustainability competence and examines the determinants of young people's engagement in pro-environmental behavior. Using data from various editions of the Programme for International Student Assessment (PISA), the paper first provides an overview of students who have mastered the entire environmental sustainability toolbox, comprising emotional, cognitive, behavioral and attitudinal dimensions. The paper then considers the degree to which education systems have equipped students with an extended toolbox that comprises competences such as collaborative problem-solving, familiarity with digital tools and financial literacy.*

***European sustainability competence framework background document Literature Review, Analysis of Frameworks and Proposals, Scalabrino, C.***

*<https://op.europa.eu/en/publication-detail/-/publication/c38e7f-45ef-11ed-92ed-01aa75ed71a1/language-en>*

*This report presents a preliminary literature review and frameworks analysis used for the preparation of the initial phases of the design process of the European Sustainability Competence Framework (GreenComp). Specifically, it includes a literature review conducted between October 2020 and February 2021, and an initial set of competences, to be used as a synthesis of the work done in the fields that contributed to the definition of the sustainability competences or for subsequent expert consultations. This preliminary set of competences especially aimed to be functional for all levels and areas of Lifelong Learning, from early childhood to old age, in formal, non-formal and informal contexts. The report also includes a section on Education for Sustainability as a unique tool to facilitate the learning of the competences.*

## ***Green Comp Framework - European commission***

*<https://publications.jrc.ec.europa.eu/repository/handle/JRC128040>*

*GreenComp identifies a set of sustainability competences to feed into education programmes to help learners develop knowledge, skills and attitudes that promote ways to think, plan and act with empathy, responsibility, and care for our planet and for public health.*

## ***The European Entrepreneurship Competence Framework - European commission***

*<https://ec.europa.eu/social/main.jsp?catId=1317&langId=en>*

*The European Commission has developed EntreComp: the European Entrepreneurship Competence Framework as a reference framework to explain what is meant by an entrepreneurial mindset. EntreComp offers a comprehensive description of the knowledge, skills and attitudes that people need to be entrepreneurial and create financial, cultural or social value for others.*

***LifeComp - the European framework for 'Personal, social and learning to learn' (EC)*** <https://op.europa.eu/en/publication-detail/-/publication/7d9c9dcd-bf31-11ea-901b-01aa75ed71a1/language-en>

*The LifeComp framework regards “Personal, Social and Learning to Learn” as a set of competences applying to all spheres of life that can be acquired through formal informal and non-formal education, and can help citizens to thrive in the 21st Century. These competences have been established following a thorough literature research and several consultations with experts and stakeholders. LifeComp has nine competences with three descriptors each. The framework is conceptual and non-prescriptive.*

### ***The Digital Competence framework for citizens - European commission***

<https://op.europa.eu/en/publication-detail/-/publication/50c53c01-abeb-11ec-83e1-01aa75ed71a1/language-en>

*The Digital Competence Framework for Citizen (DigComp) provides a common understanding of what digital competence is. It aims to provide evidence-based scientific support to the European policy making process. The present publication has two main parts: The integrated DigComp 2.2 framework provides more than 250 new examples of knowledge, skills and attitudes that help*



*citizens engage confidently, critically and safely with digital technologies, and new and emerging ones such as systems driven by artificial intelligence (AI).*

## ***Developing a Framework for Assessing Environmental Literacy***

*Copyright © 2011 by the North American Association for Environmental Education (NAAEE) 2000 P Street, N.W., Suite 540, Washington, D.C. 20036, USA <https://cdn.naaee.org/sites/default/files/inline-files/devframewkassessenvlitonlineed.pdf>*

*This document presents a new, comprehensive, research-based description of environmental literacy and applies that work to the creation of a framework for an assessment of environmental literacy.*

## ***REFERENCE FRAMEWORK OF COMPETENCES FOR DEMOCRATIC CULTURE, Council of Europe***

*<https://www.coe.int/en/web/reference-framework-of-competences-for-democratic-culture>*

*This Reference Framework is the result of widespread consultation and testing within Council of Europe member states and beyond. It is built on principles that are common to our democratic societies. It specifies the tools and critical understanding that learners at all levels of education*

*should acquire in order to feel a sense of belonging and make their own positive contributions to the democratic societies in which we live. The purpose of this Framework is to support member states in developing open, tolerant and diverse societies through their education.*

***COMMISSION STAFF WORKING DOCUMENT Accompanying the document Proposal for a Council Recommendation on learning for environmental sustainability***

*<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52022SC0003>*

*This Staff Working Document accompanies and supports the European Commission proposal for a Council Recommendation on learning for environmental sustainability, adopted in January 2022. It provides detail on the concepts and recommendations put forward in this new initiative and presents research evidence and good practice examples from across Europe. It can serve as a guide for policy makers, educators and all individuals and organizations working on environmental sustainability in the education and training sector.*

*<https://competencesclimatiques.eu/>*

<https://caedofu.tripod.com/doc/tecprof/bennell.pdf>

*“The “Skills development among the economically vulnerable and socially excluded in developing countries” aims to activate the fight for climate in the different spheres of formal, non-formal and informal education, bringing together in a community of practice various teachers, educators, consultants, leaders of opinion, representatives of civil society, who participatively and collaboratively acquire ESC methods and adapt them to the learning needs of their own beneficiaries.”*

*This material creation was co-funded by the European Union via the Erasmus+ program under the EarthGames4EyoUth project.*

*The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the National Agency and Commission cannot be held responsible for any use which may be made of the information contained therein.*

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