WI-MI: OPEN WIDE MINDS WILL FIND ECO VIRTUAL STEAM SOLUTIONS TOWARDS CLIMATE CHANGE

2022-KA220-SCH-A5DAC388

Learn on How to Teach Climate Change

Webinar

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"The Earth is what we all have in common."
— Wendell Berry, farmer, poet, and environmentalist.

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OBJECTIVES:

- Integrating Climate Change: Best Practices
- The Importance of Local Context: Tailoring Climate Education to Community Needs
- Developing Critical Thinking Skills Through Climate Debates and Discussions
- Utilizing Multimedia Resources: Documentaries, Podcasts, and Infographics
- Assessing Student Understanding: Effective Evaluation Strategies for Climate Education

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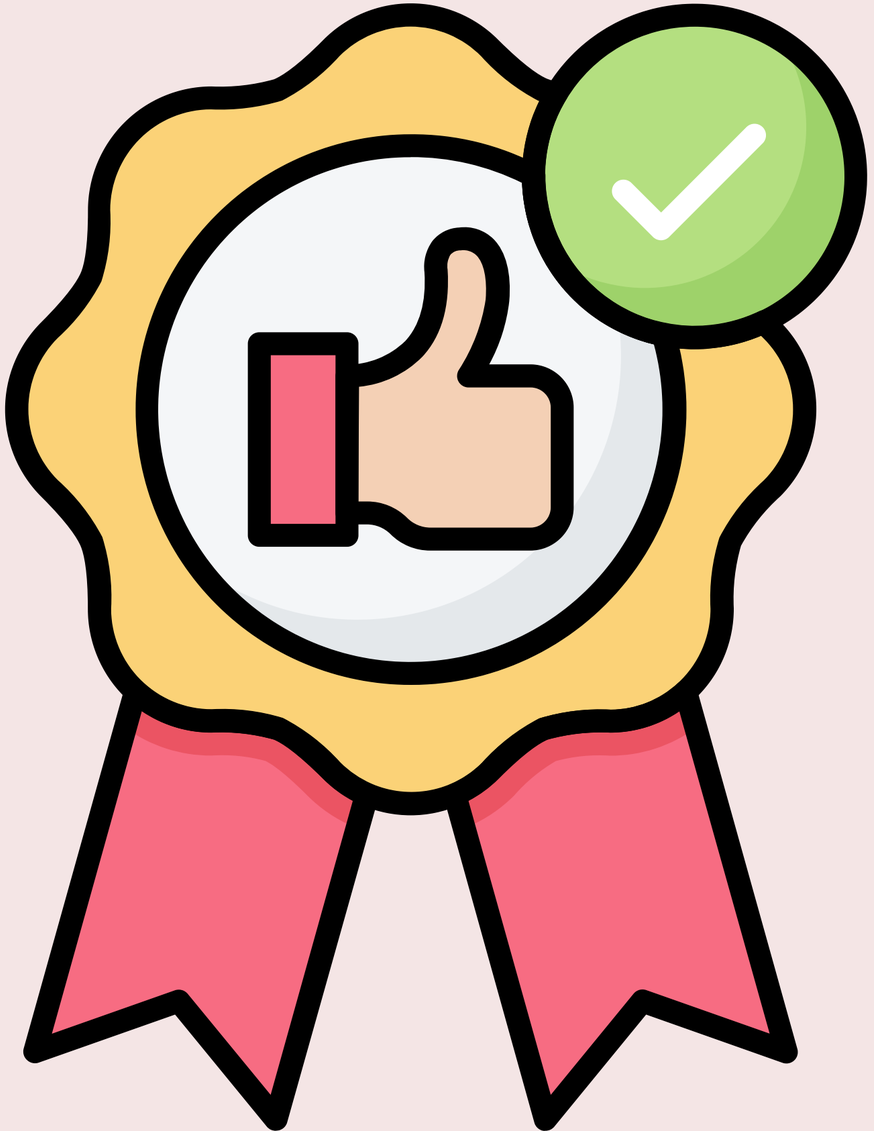
Integrating Climate Change: Best Practices



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INTEGRATING CLIMATE CHANGE: BEST PRACTICES

Integrating climate change into various sectors and practices ensures that societies are better equipped to mitigate and adapt to its effects.
Let’s discover some of the best practices that are commonly implemented worldwide

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INTEGRATING CLIMATE CHANGE: BEST PRACTICES

Mainstreaming Climate Change into Policies

- Climate considerations should be embedded in all levels of decision-making, from urban planning to national economic strategies.
- Governments can integrate climate goals into development plans, ensuring that climate resilience becomes a core focus.
- Example: Cities adopting “Climate Action Plans” with specific goals for reducing emissions and adapting infrastructure.

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INTEGRATING CLIMATE CHANGE: BEST PRACTICES

Promoting Renewable Energy Adoption

- Shifting to renewable energy sources like solar, wind, and hydroelectric power significantly reduces carbon footprints.
- Countries and organizations can provide incentives such as subsidies, tax rebates, and grants to accelerate renewable energy adoption.
- Example: Denmark’s successful integration of wind energy into its power grid, with a goal to become carbon neutral by 2050.

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INTEGRATING CLIMATE CHANGE: BEST PRACTICES

Enhancing Sustainable Practices in Industries

- Industries can implement sustainable practices, such as improving energy efficiency, adopting circular economy models, and reducing waste.
- Utilizing technologies like carbon capture and storage (CCS) can help reduce emissions.
- Example: Companies like Tesla focus on innovation to accelerate the world's transition to sustainable energy.

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INTEGRATING CLIMATE CHANGE: BEST PRACTICES

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Building Climate-Resilient Infrastructure

- Infrastructure development must consider climate risks such as rising sea levels, floods, and extreme weather.
- Examples include elevated roads in flood-prone areas, green roofs to mitigate urban heat islands, and seawalls in coastal cities.
- Example: The Netherlands' innovative water management system protects against sea-level rise.

INTEGRATING CLIMATE CHANGE: BEST PRACTICES

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This UNEP publication demonstrates how buildings and community spaces can be constructed to increase their resilience to climate change, especially in developing countries where structures are largely self-built. The practical guide offers construction solutions to adapt to a range of different risks in various climates.

DISCLAIMER: This Video is done and produced by the UNEP.

and people - everywhere - are feeling the heat.

INTEGRATING CLIMATE CHANGE: BEST PRACTICES

Supporting Community-Led Climate Solutions

- Involving communities in climate change initiatives ensures locally tailored solutions that are practical and inclusive.
- Example: Community-driven mangrove restoration projects in Southeast Asia, which help reduce coastal erosion and enhance biodiversity.

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INTEGRATING CLIMATE CHANGE: BEST PRACTICES

Advancing Climate Education and Awareness

- Educating people about climate change and sustainability empowers them to make informed decisions.
- Schools, businesses, and media campaigns can raise awareness about the impacts of climate change and steps to mitigate it.
- Example: Programs like UNESCO's Climate Change Education for Sustainable Development.

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INTEGRATING CLIMATE CHANGE: BEST PRACTICES

Monitoring & Evaluation

- Establish systems to regularly monitor the effectiveness of climate policies and projects, adapting them as needed.
- Example: The use of digital dashboards and AI to track carbon emissions and climate resilience efforts.

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INTEGRATING CLIMATE BEST PRACTICES INTO THE CLASSROOM

Incorporate Climate Change into the Curriculum

- **Subject Integration:** Embed climate topics across subjects like science, geography, and social studies.

- **Interdisciplinary Approach:** Combine STEM education with social and ethical discussions about sustainability.

EXAMPLE

- **Science:** Study the greenhouse effect, renewable energy, or carbon cycles.
- **Social Studies:** Explore global policies like the Paris Agreement or examine climate justice.

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INTEGRATING CLIMATE BEST PRACTICES INTO THE CLASSROOM

Encourage Hands-On Learning

- Eco-Friendly Projects
- Gardening and Composting
- Energy Audits: Conduct audits of the school's energy and resource consumption, encouraging students to propose improvements.

Use Technology and Simulations

- **Virtual Reality (VR):** Use VR to simulate climate scenarios, such as the impact of rising sea levels or deforestation.
- **Interactive Apps:** Employ apps and online platforms to calculate carbon footprints or simulate climate change models.
- **Digital Storytelling:** Encourage students to create videos or infographics about climate solutions.

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INTEGRATING CLIMATE BEST PRACTICES INTO THE CLASSROOM

Promote Action Through Local Community Projects

- Collaborate with local environmental organizations to engage students in real-world climate initiatives, such as clean-up drives or tree-planting campaigns.
- Build community partnerships to host guest lectures or workshops with environmentalists and climate scientists.

Teach Problem-Solving Through Sustainability Challenges

- Challenge students to develop innovative solutions to real-world climate problems, such as reducing waste or improving energy efficiency in their homes and schools.
- Encourage participation in competitions like the Eco-Schools Program or National STEM Challenges.

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INTEGRATING CLIMATE BEST PRACTICES INTO THE CLASSROOM

Foster Climate Literacy Through Storytelling and Media

- Books and Films: Introduce students to books, documentaries, and films that explore climate change and its impacts, such as The Lorax by Dr. Seuss or An Inconvenient Truth.
- Creative Writing: Encourage students to write essays, short stories, or poems imagining a future shaped by climate action or inaction.

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INTEGRATING CLIMATE BEST PRACTICES INTO THE CLASSROOM

Incorporate School-Wide Sustainability Practices

Establish classroom policies that reflect climate best practices, such as:

- Recycling bins for paper and plastics.
- Energy-saving habits like turning off lights and computers.
- Encouraging reusable water bottles and lunch containers.
- Create a "Green Team" of students to advocate for sustainable practices throughout the school.

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INTEGRATING CLIMATE BEST PRACTICES INTO THE CLASSROOM

Connect to Global Movements

- Align lessons with global environmental movements like Earth Day, Fridays for Future, or World Environment Day to highlight the importance of collective action.
- Encourage participation in virtual forums or pen-pal programs with students in other countries working on climate initiatives.

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me | NASA Climate Kids

climatekids.nasa.gov

THE IMPORTANCE OF LOCAL CONTEXT: TAILORING CLIMATE EDUCATION TO COMMUNITY NEEDS

Understanding and Adapting Climate Education to Address Local Challenges

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WHY LOCAL CONTEXT MATTERS

- **Relevance:** Students connect more deeply with climate issues when they see how it impacts their own community.
- **Engagement:** Localized examples foster active participation and curiosity.
- **Impact:** Addressing local problems encourages tangible actions that benefit the immediate environment.

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ADAPTING CLIMATE EDUCATION TO LOCAL CONTEXT

Identify Local Climate Challenges:

- Examples: Flooding, drought, deforestation, or urban pollution.
- Collaborate with local experts and organizations to gather data.

Integrate Community Practices:

- Highlight traditional practices that align with sustainability (e.g., rainwater harvesting).
- Study indigenous knowledge and its role in environmental conservation.

Focus on Relevant Solutions:

- Examples: Promoting water conservation in arid areas or planting native species to restore biodiversity.

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COMMUNITY-CENTERED LEARNING STRATEGIES

Fieldwork and Local Projects:

- Example: Students conduct a water quality test of a nearby river.

Community Partnerships:

- Collaborate with NGOs or local government for workshops and practical lessons.

Storytelling and Local Narratives:

- Share stories of community members who are climate activists or innovators.

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EXAMPLES OF TAILORED CLIMATE EDUCATION

1. **Urban Settings:**
- Focus on waste management, air pollution, and urban greening.
- Example: Recycling campaigns in cities.
2. **Rural Settings:**
- Address sustainable agriculture, water conservation, and deforestation.
- Example: Teaching crop rotation methods in drought-prone areas.
3. **Coastal Areas:**
- Focus on marine ecosystems, rising sea levels, and coastal protection.
- Example: Mangrove restoration projects in Southeast Asia.

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BENEFITS OF LOCALIZED CLIMATE EDUCATION

- Empowers communities to take ownership of their environmental challenges.
- Encourages cultural appreciation and the preservation of sustainable traditions.
- Builds practical skills that lead to immediate and long-term impacts.

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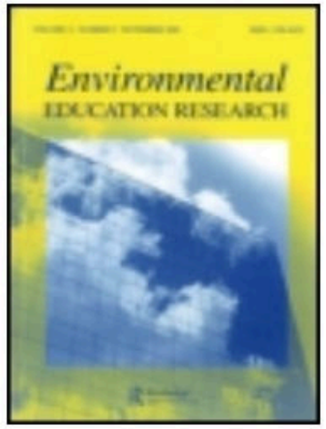

Environmental Education Research

ISSN: 1350-4622 (Print) 1469-5871 (Online) Journal homepage: http://www.tandfonline.com/loi/ceer20

Identifying effective climate change education strategies: a systematic review of the research

Martha C. Monroe, Richard R. Plate, Annie Oxarart, Alison Bowers & Willandia A. Chaves

To cite this article: Martha C. Monroe, Richard R. Plate, Annie Oxarart, Alison Bowers & Willandia A. Chaves (2017): Identifying effective climate change education strategies: a systematic review of the research, Environmental Education Research, DOI: 10.1080/13504622.2017.1360842

To link to this article: https://doi.org/10.1080/13504622.2017.1360842

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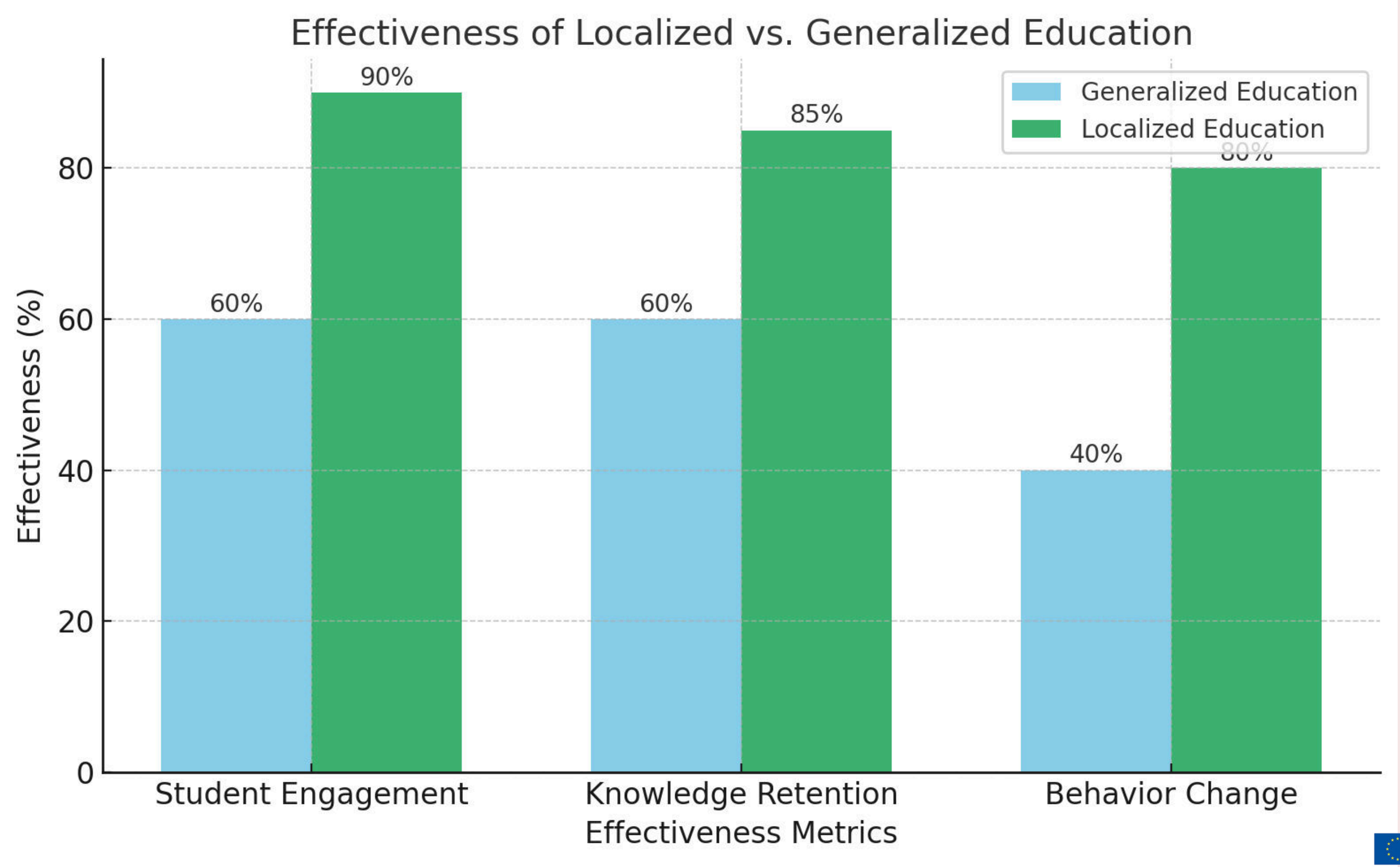

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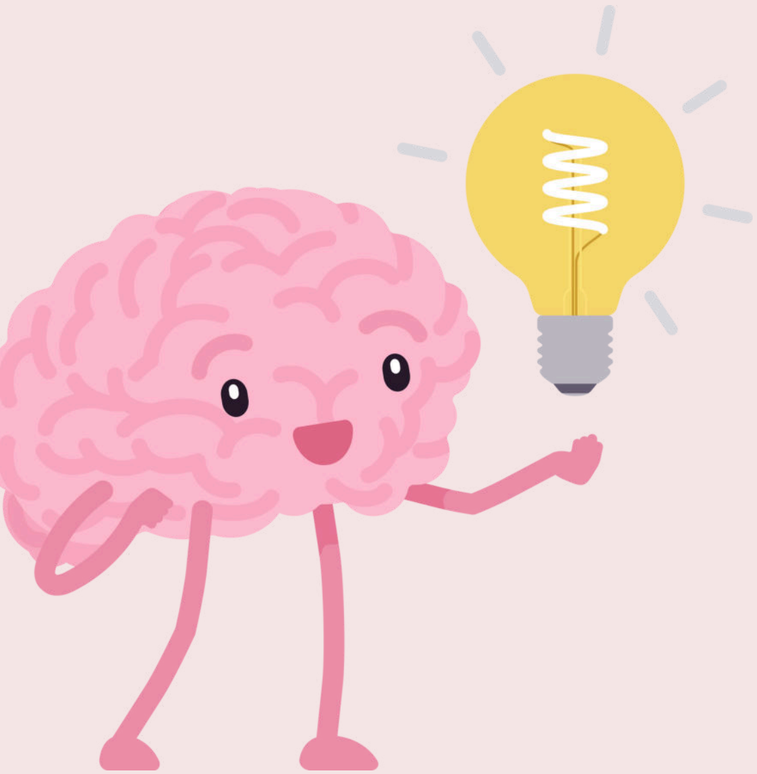
DEVELOPING CRITICAL THINKING SKILLS THROUGH CLIMATE DEBATES AND DISCUSSIONS



What is critical thinking?

- Critical thinking is the ability to analyze, evaluate, and synthesize information objectively and systematically to form a well-reasoned judgment or decision.
- It involves questioning assumptions, identifying biases, and considering multiple perspectives before arriving at a conclusion.

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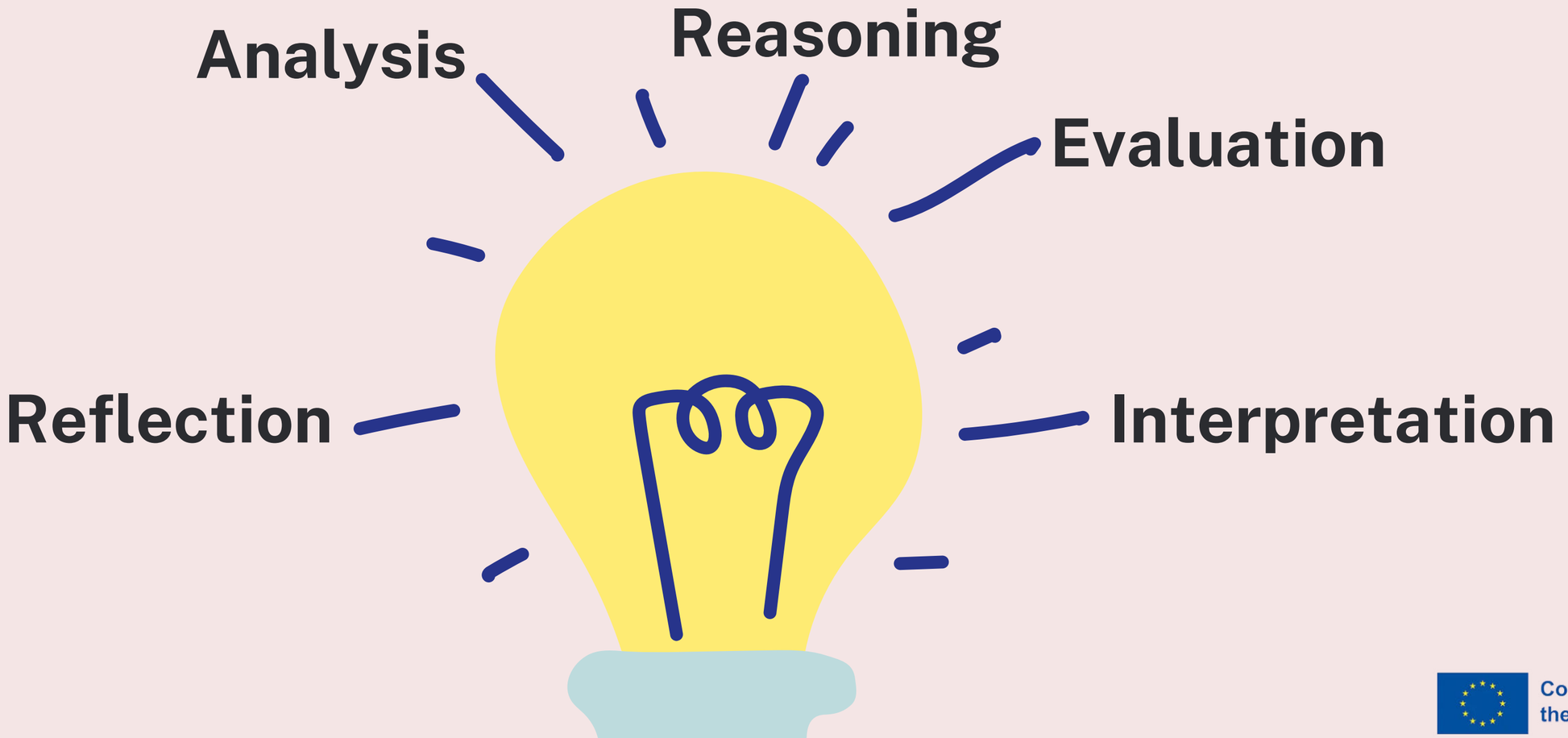
DEVELOPING CRITICAL THINKING SKILLS THROUGH CLIMATE DEBATES AND DISCUSSIONS

Key Characteristics of Critical Thinking:



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WHY IS CRITICAL THINKING ESSENTIAL IN CLIMATE EDUCATION?

Climate Issues Are Multifaceted → Climate change involves interconnected factors like science, economics, politics, and ethics. Critical thinking helps students navigate these complexities.

Promotes Informed Decision-Making → Students learn to assess climate policies, renewable energy technologies, and lifestyle changes to make evidence-based decisions.

Counteracts Misinformation → The climate crisis is plagued by misinformation and denial. Critical thinking enables students to differentiate facts from myths and identify credible sources.

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- **Encourages Problem-Solving:**

Climate change requires innovative solutions. Critical thinkers can develop creative strategies to mitigate and adapt to its impacts.

- **Fosters Global Citizenship:**

By understanding diverse perspectives and ethical implications, students become responsible citizens who can advocate for sustainable practices.

- **Prepares for Leadership:**

Leaders in climate action require the ability to analyze data, communicate effectively, and make tough decisions under uncertainty.

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ITS TIME TO DEBATE!

"Should Developed Countries Bear More Responsibility for Combating Climate Change?"

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EXAMPLES OF DISCUSSION TOPICS FOR TEACHERS TO USE IN CLASS WHEN ADDRESSING CLIMATE CHANGE

Should governments impose stricter regulations on industries to reduce carbon emissions?

Purpose: Encourages students to evaluate the role of policy in combating climate change and the balance between economic growth and environmental responsibility.

- **Focus Questions:**

What are the pros and cons of stricter regulations?

How might these policies impact businesses and consumers?

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Are renewable energy sources like solar and wind the only solution to the global energy crisis?

- **Purpose:** Sparks a debate about energy diversity and the practicality of transitioning to 100% renewable energy.

How can individual actions make a significant impact on reducing climate change?

- **Purpose:** Helps students connect personal behaviors with broader environmental outcomes.

How can climate change education empower young people to take action?

- **Purpose:** Explores the role of education in addressing the climate crisis and motivates students to think critically about their potential impact.

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Utilizing Multimedia Resources: Documentaries, Podcasts, and Infographics for Climate Change Education

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Multimedia resources are essential for teaching climate change effectively, as they offer visual, auditory, and data-driven ways to explore complex topics.

How do we utilize multimedia in an educational setting?

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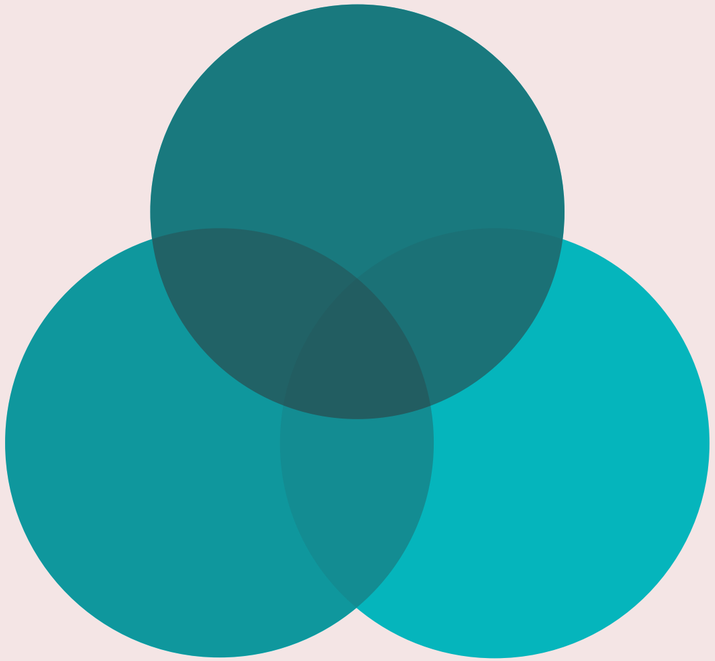
Documentaries

Podcasts

Infographics



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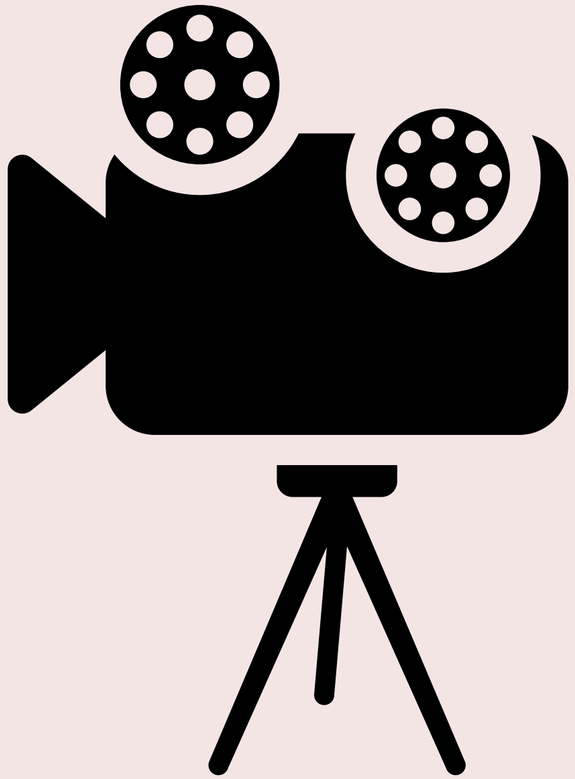
DOCUMENTARIES



Purpose in education:

Documentaries provide real-world insights, showcasing the causes and effects of climate change with compelling visuals and expert narratives.

They help students connect theoretical concepts to practical, real-world scenarios.

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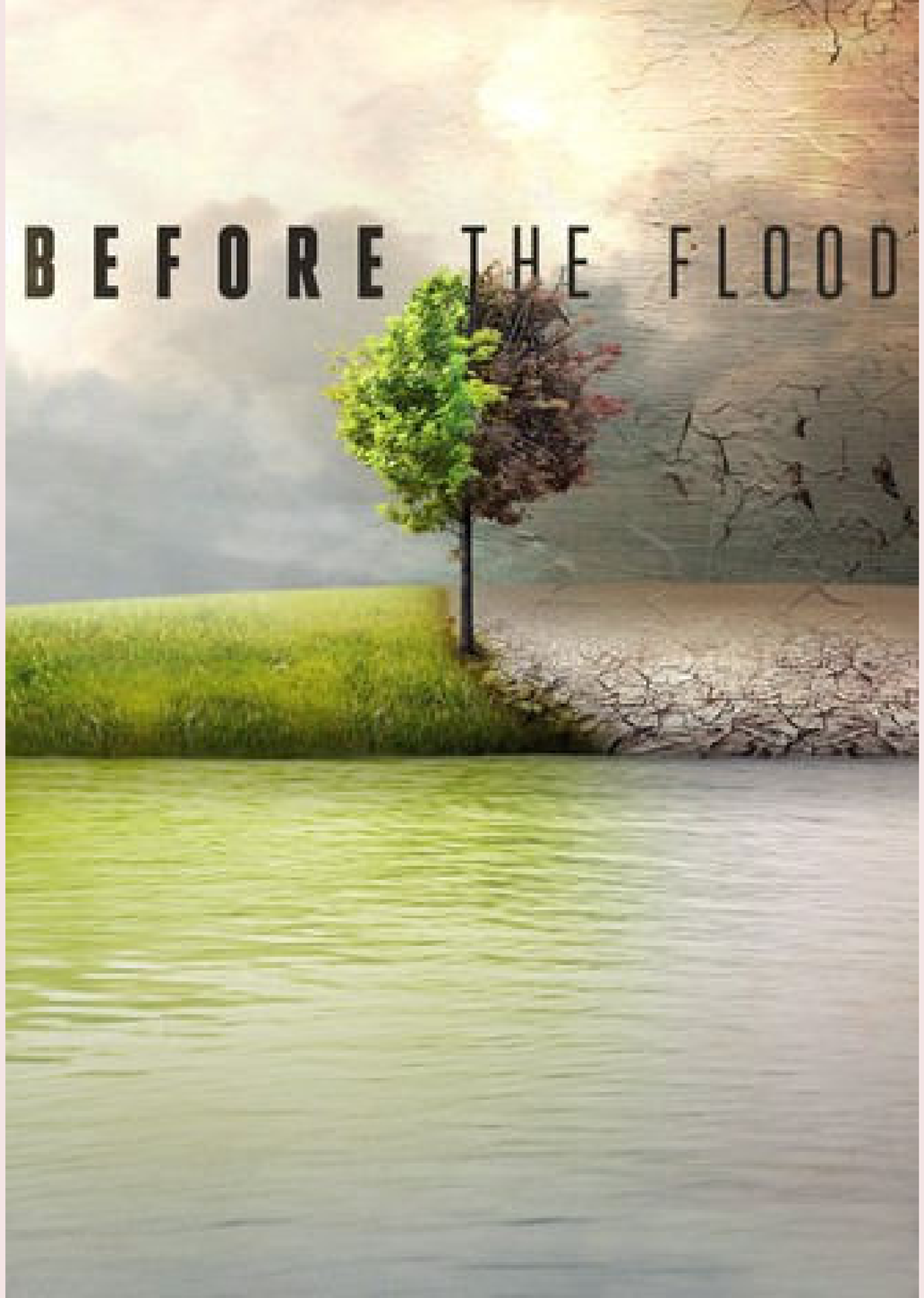

- Narrator: Leonardo DiCaprio
- Content: Explores the global impacts of climate change, such as melting ice caps, rising sea levels, and extreme weather, while also presenting solutions like renewable energy and sustainable practices.
- How to Use: Educate students on global perspectives and solutions to climate challenges.

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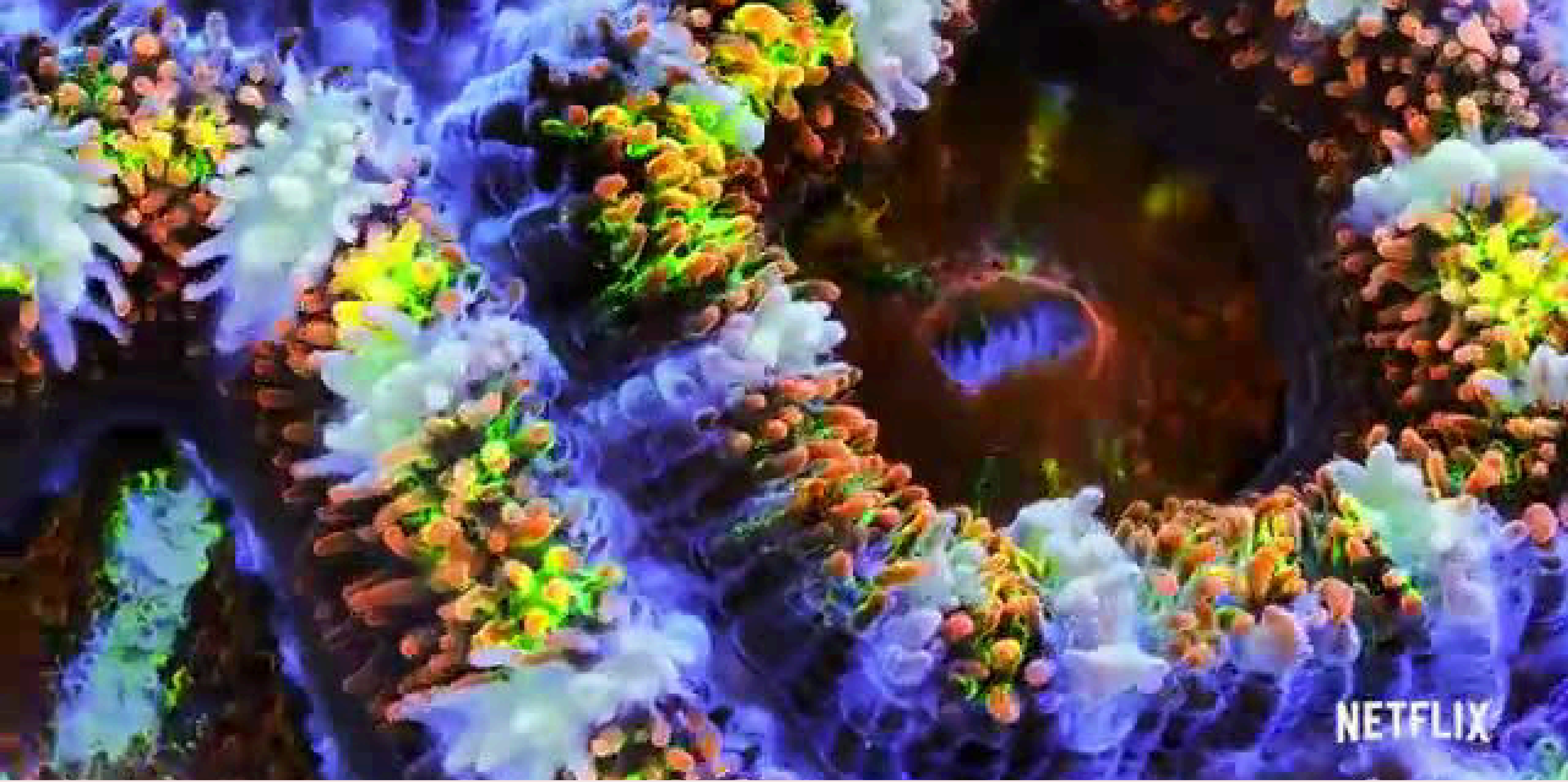
- **Focus: Underwater photography to document coral bleaching caused by climate change.**
- **Educational Value: Explains the science behind ocean warming and its ecological impacts.**
- **Relevance: Useful for understanding marine ecosystems and biodiversity loss.**



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Resource: https://www.youtube.com/watch?v=xlOdfTNK70k
Video owned by NETFLIX MENA, done by NETFLIX MENA

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- **Focus: Explores innovative climate solutions that could reverse climate change impacts by 2040.**
- **Educational Value: Highlights optimism by showcasing renewable energy, sustainable agriculture, and regenerative practices.**

HOW INFOGRAPHICS HELP TEACH STUDENTS ABOUT CLIMATE CHANGE

Infographics are powerful tools for teaching climate change because they **combine visual appeal** with concise information, **making complex topics easier to understand and retain.**

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HOW INFOGRAPHICS HELP TEACH STUDENTS ABOUT CLIMATE CHANGE

Simplifying Complex Concepts

Climate science involves technical terms, data, and processes like carbon cycles, greenhouse gas effects, and feedback loops. Infographics break these down into digestible visual segments.

Enhancing Visual Learning

Many students are visual learners who grasp information better through images, charts, and graphs.

Engaging and Retaining Attention

Climate change can feel overwhelming, but infographics distill large amounts of information into concise formats. This helps keep students focused and interested.

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HOW INFOGRAPHICS HELP TEACH STUDENTS ABOUT CLIMATE CHANGE

Supporting Data Literacy → Infographics often include data visualizations like bar charts, line graphs, and pie charts.

Encouraging Critical Thinking → Infographics can present information in a way that challenges students to think critically.

Promoting Accessibility → Infographics use universal symbols and minimal text, making them accessible to diverse learning levels and language abilities.

Creating a Call to Action → Infographics often include actionable tips and solutions, motivating students to take small steps toward sustainability.

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GLOBAL WARMING

What is?

Global warming is a phenomenon of climate change characterized by a general increase in average temperatures of the Earth, wich modifies the weather balances and ecosystems for a long time.

CAUSES

DEFORESTATION 20%
LOREM IPSUM DOLOR SIT AEMET ADISPISCING CONSECTETUR ELIT.

WASTE DIPOSAL 20%
LOREM IPSUM DOLOR SIT AEMET ADISPISCING CONSECTETUR ELIT.

OVER CONSUMPTION 30%
LOREM IPSUM DOLOR SIT AEMET ADISPISCING CONSECTETUR ELIT.

MINING 10%
LOREM IPSUM DOLOR SIT AEMET ADISPISCING CONSECTETUR ELIT.

FOSSIL FUELS 10%
LOREM IPSUM DOLOR SIT AEMET ADISPISCING CONSECTETUR ELIT.

INTENSIVE FARMING 10%
LOREM IPSUM DOLOR SIT AEMET ADISPISCING CONSECTETUR ELIT.

PREVENTION

planting trees as much as possible

waste processing plants

ecological fuel using

alternative energy development

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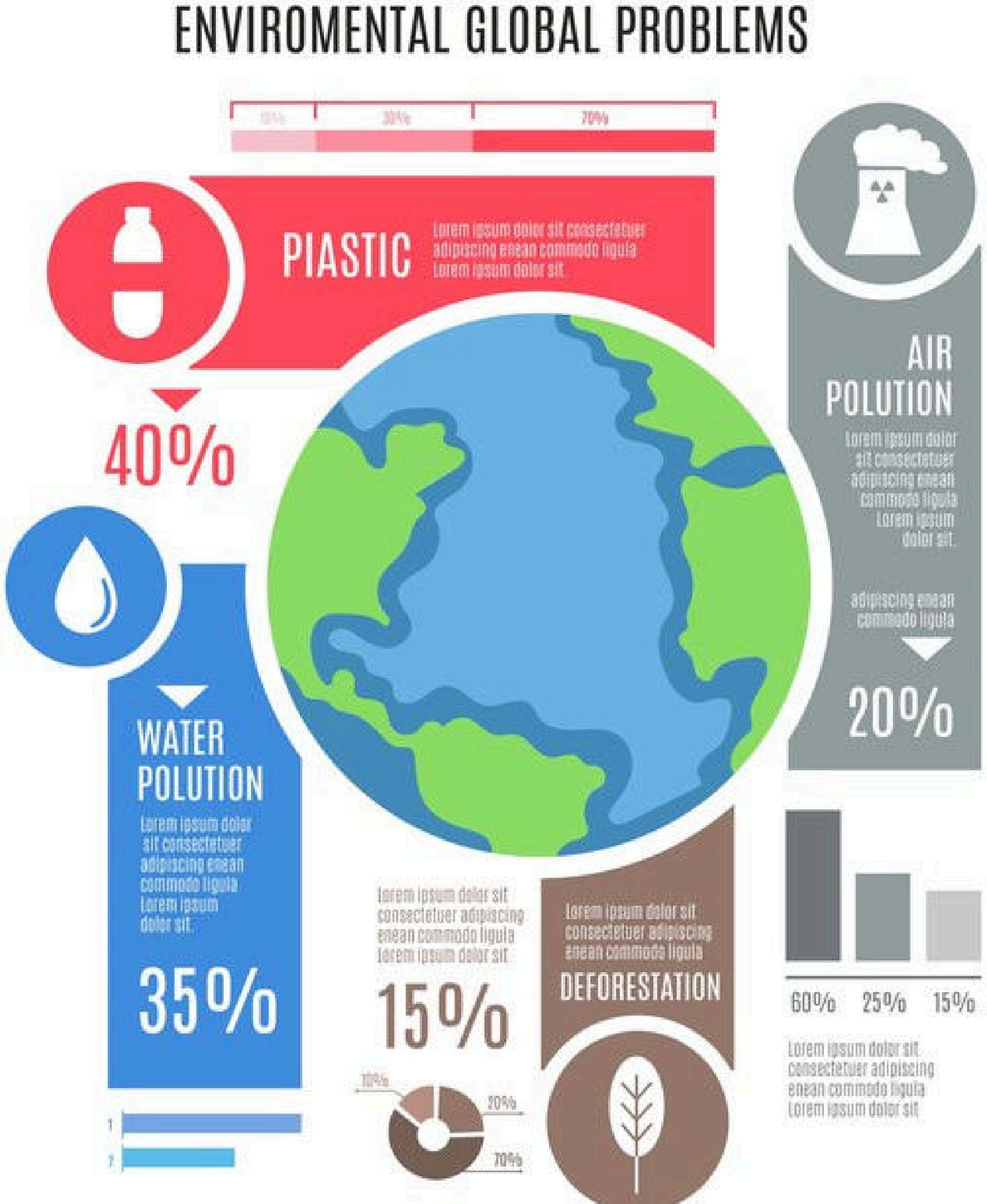

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ASSESSING STUDENT UNDERSTANDING: EFFECTIVE EVALUATION STRATEGIES FOR CLIMATE EDUCATION

Evaluation is a key part of climate education to ensure students grasp the content and develop critical thinking, problem-solving skills, and actionable knowledge.

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WHY IS EVALUATION IMPORTANT?

1 Measures Learning Outcomes

Determines if students have achieved the desired learning objectives.
Did students understand the causes of climate change and its impacts? Can they identify solutions?

2 To identify Strengths and Weaknesses

Pinpoints areas where students excel and where they need additional support.
A student may grasp the science behind global warming but struggle to propose actionable solutions.

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WHY IS EVALUATION IMPORTANT?

3 Improves Teaching Effectiveness

Provides feedback to educators on what works and what doesn’t.
If many students struggle with a specific topic, teachers can adjust their methods or provide supplementary materials.

4 Encourages Active Learning

Engages students by making them reflect on their knowledge and participation.
Through self-assessments or peer reviews, students take responsibility for their learning.

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WHY IS EVALUATION IMPORTANT?

5 Promotes Accountability

Ensures that educational programs meet their goals. Climate education programs can be evaluated to determine if they effectively foster awareness and actionable knowledge.

6 Supports Continuous Improvement

Provides a basis for refining educational strategies and curricula. Feedback from assessments can lead to the inclusion of new, more relevant climate change topics or interactive methods.

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WHY IS EVALUATION IMPORTANT?

7 Facilitates Personalized Learning

Tailors education to meet individual student needs.

A student struggling with data analysis in climate studies might receive additional resources or tutoring.

8 Encourages Critical Thinking

Evaluations often challenge students to analyze, synthesize, and apply their knowledge.

Asking students to propose solutions to local climate issues fosters problem-solving skills.

9 Tracks Progress

Allows students, teachers, and institutions to monitor growth over time. Comparing pre- and post-assessments can show how much a student has learned about renewable energy.

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WHY IS EVALUATION IMPORTANT?

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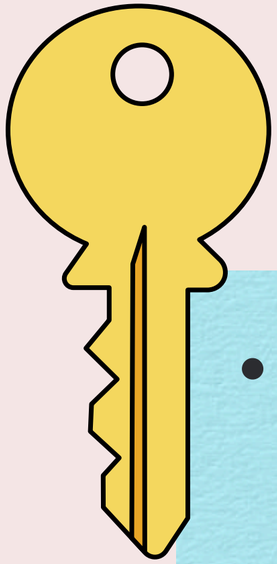
10

Prepares Students for Real-World Challenges

Evaluation ensures that students are ready to apply their knowledge to real-world situations. Assessing whether students can communicate climate science effectively to peers or community members.



KEY CONSIDERATIONS FOR CLIMATE EDUCATION ASSESSMENT

- **Focus on Actionable Knowledge: Prioritize assessing whether students can apply their learning to real-world contexts.**
- **Encourage Critical Thinking: Assess their ability to analyze, interpret data, and propose viable solutions.**
- **Promote Collaboration: Incorporate team-based assessments to simulate real-world problem-solving scenarios.**
- **Use a Variety of Methods: Combine traditional and innovative strategies for a well-rounded evaluation.**

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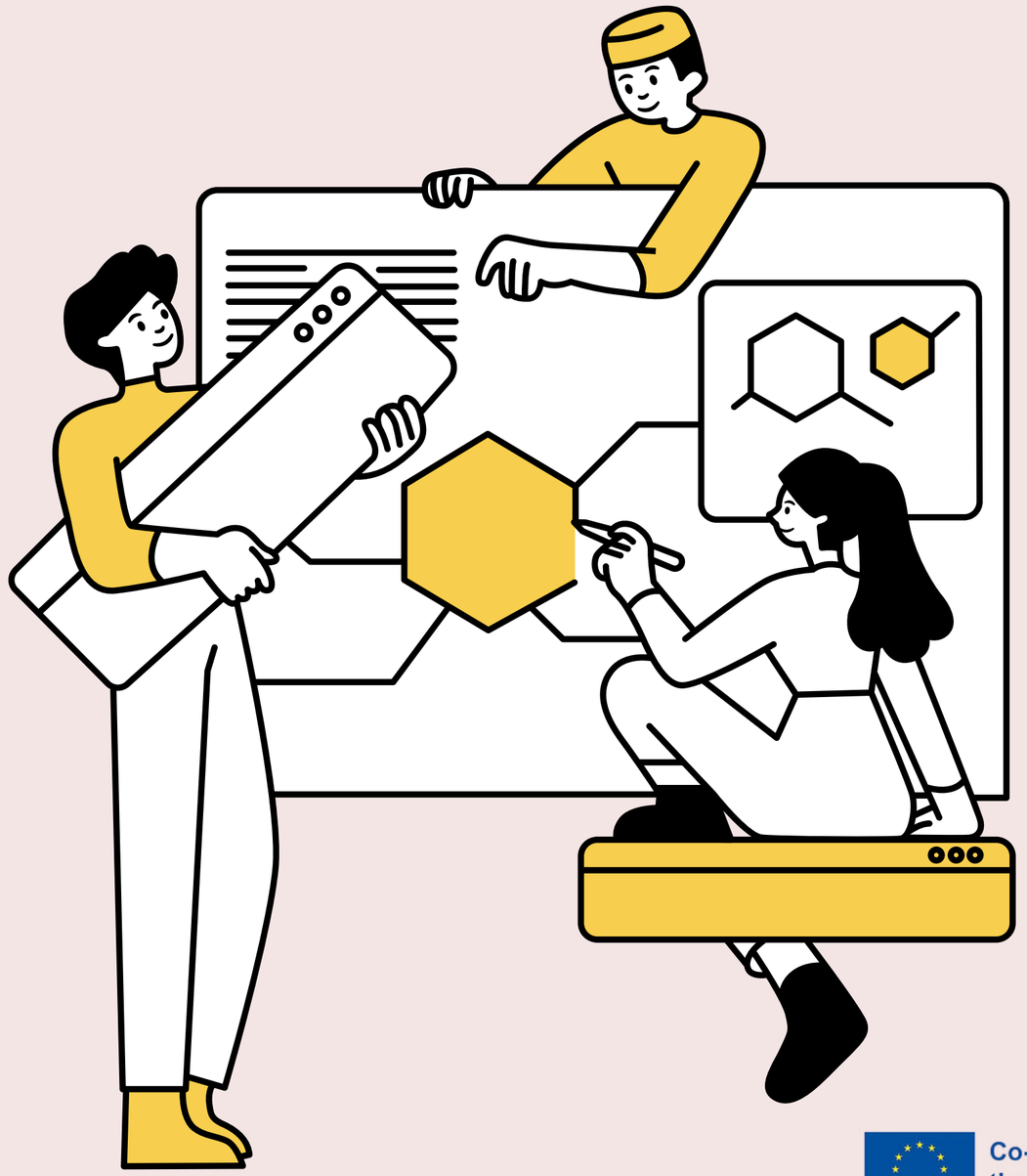
HOW CAN TEACHERS ASSESS STUDENT UNDERSTANDING?

Project-Based Assessments

Students work on real-world climate-related projects such as designing a community sustainability plan or conducting a local environmental impact study.

How It Helps: Demonstrates applied knowledge and encourages creativity, teamwork, and critical thinking.



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HOW CAN TEACHERS ASSESS STUDENT UNDERSTANDING?

Case Studies and Problem-Solving Tasks

Present students with real or hypothetical scenarios involving climate challenges, such as urban flooding or biodiversity loss.

How It Helps: Evaluates their ability to analyze data, propose solutions, and justify their reasoning.

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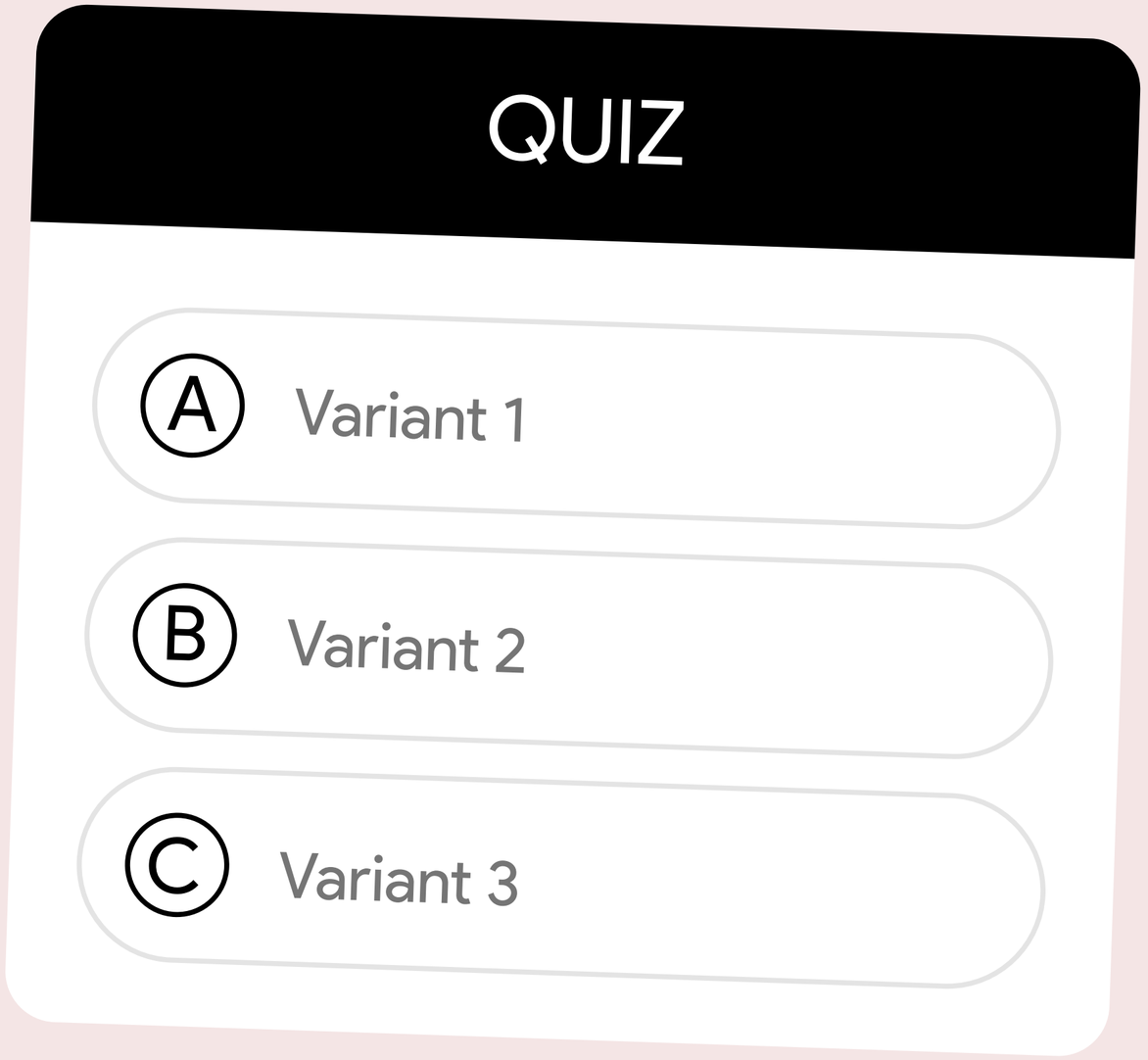
HOW CAN TEACHERS ASSESS STUDENT UNDERSTANDING?

Formative Assessments (Ongoing Evaluation)

- Quizzes and Polls: Use digital tools like Kahoot or Google Forms to quiz students on key concepts (e.g., greenhouse gases or carbon footprint calculations).
- Reflection Journals: Ask students to write about what they've learned and how they plan to apply it.



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HOW CAN TEACHERS ASSESS STUDENT UNDERSTANDING?

Role-Playing and Simulations

Students take on roles like policy makers, scientists, or activists in a climate-related scenario.

How It Helps: Tests their understanding of various perspectives and decision-making processes.

Example: Conduct a mock United Nations Climate Change Conference (COP simulation).

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HOW CAN TEACHERS ASSESS STUDENT UNDERSTANDING?

Peer Assessments

Students evaluate each other's work based on set criteria, fostering collaboration and deeper understanding.

How It Helps:

Encourages critical thinking and self-reflection.

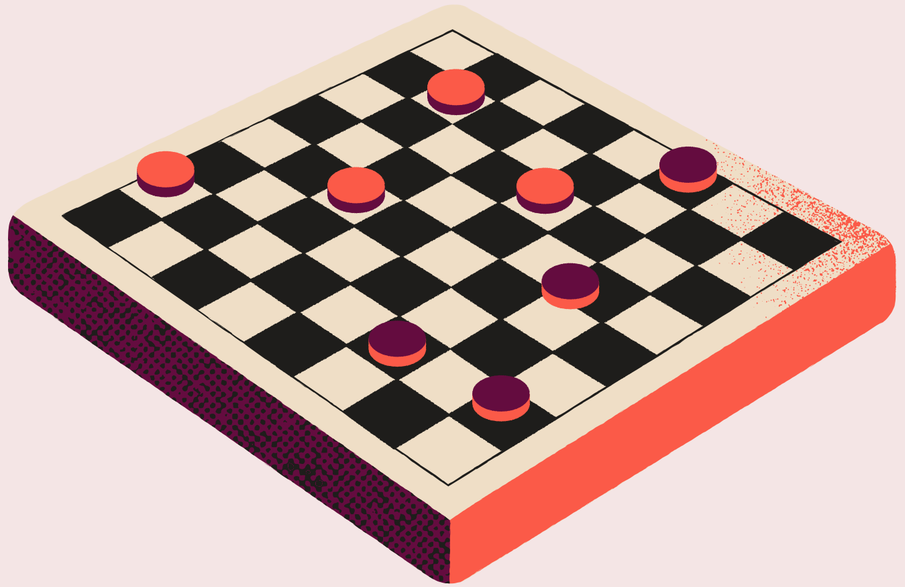
Concept Mapping

Students create diagrams linking key climate change concepts, such as carbon cycles, greenhouse effects, and renewable energy.

Visualizes connections between topics, aiding retention and comprehension.

Interactive Gamification

Use educational games or simulations to assess learning in an engaging way.



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HOW CAN TEACHERS ASSESS STUDENT UNDERSTANDING?

Written Assessments

- Essays and Reports: Analyze specific climate issues, such as the effects of global warming on biodiversity or economic policies for climate mitigation.
- Open-Ended Questions: Encourage students to articulate their understanding and viewpoints in depth.

Community-Based Assessments

Students engage with their communities by conducting surveys, hosting workshops, or creating awareness campaigns. Evaluates practical application of knowledge and fosters civic responsibility. Example: Organize a tree-planting drive and assess its environmental impact.

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HOW CAN TEACHERS ASSESS STUDENT UNDERSTANDING?

Digital Portfolios

Students compile their work over time, including projects, presentations, and reflections. How It Helps: Tracks progress and demonstrates cumulative learning.

Post-Lesson Feedback

Self-Assessment: Students reflect on their learning, identifying strengths and areas for improvement.

Exit Tickets: Short responses at the end of lessons to gauge immediate understanding.

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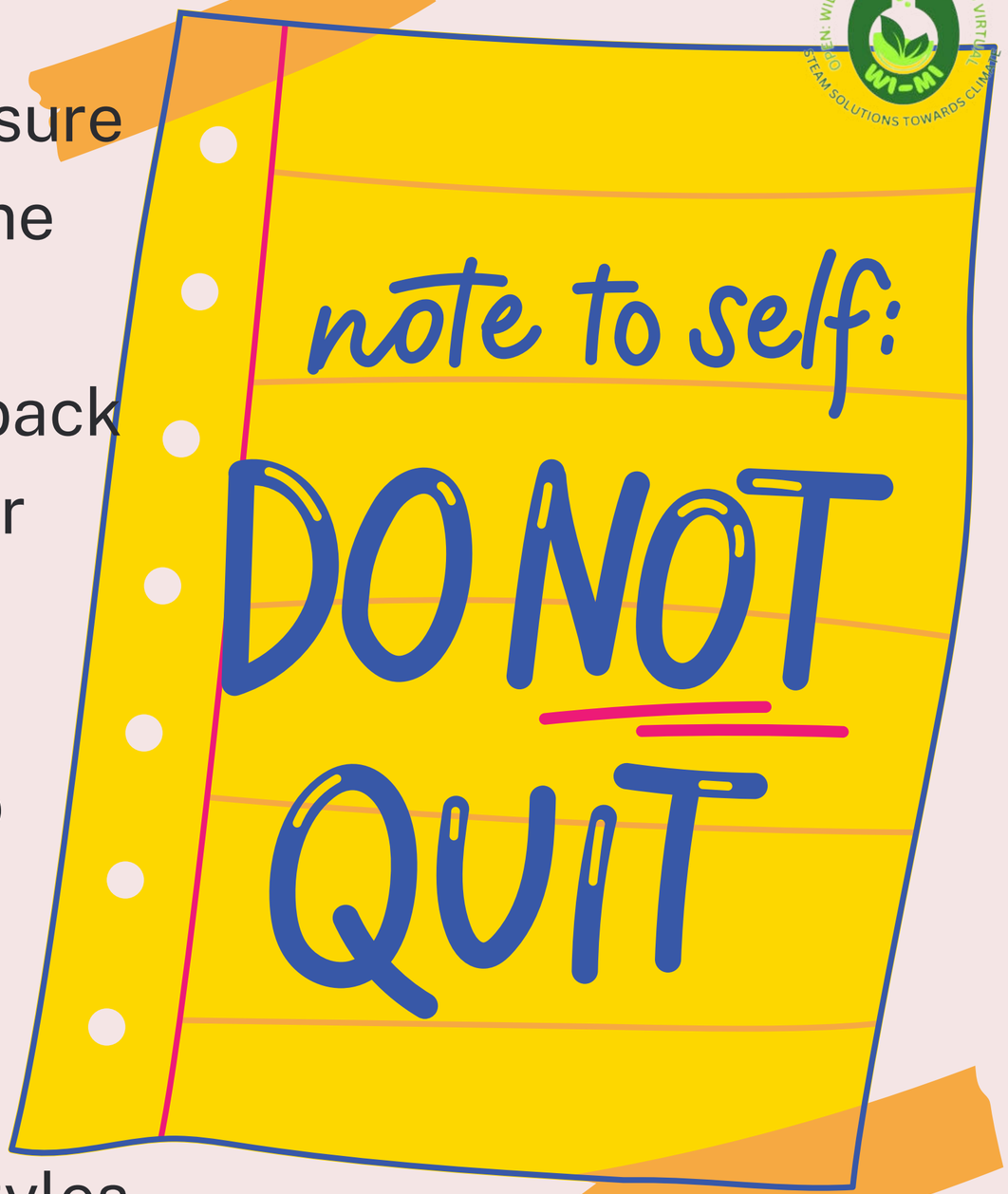
RULES OF EVALUATION

- **Be Fair and Objective:** Avoid biases and ensure all students are assessed based on the same criteria.
- **Avoid Being Too Harsh:** Constructive feedback is key; focus on guiding improvement rather than overly criticizing mistakes.
- **Ensure Clarity:** Clearly communicate expectations, grading criteria, and goals to students beforehand.
- **Use Multiple Methods:** Combine quizzes, projects, presentations, and discussions to capture different strengths and learning styles.



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CONSTRUCTIVE FEEDBACK

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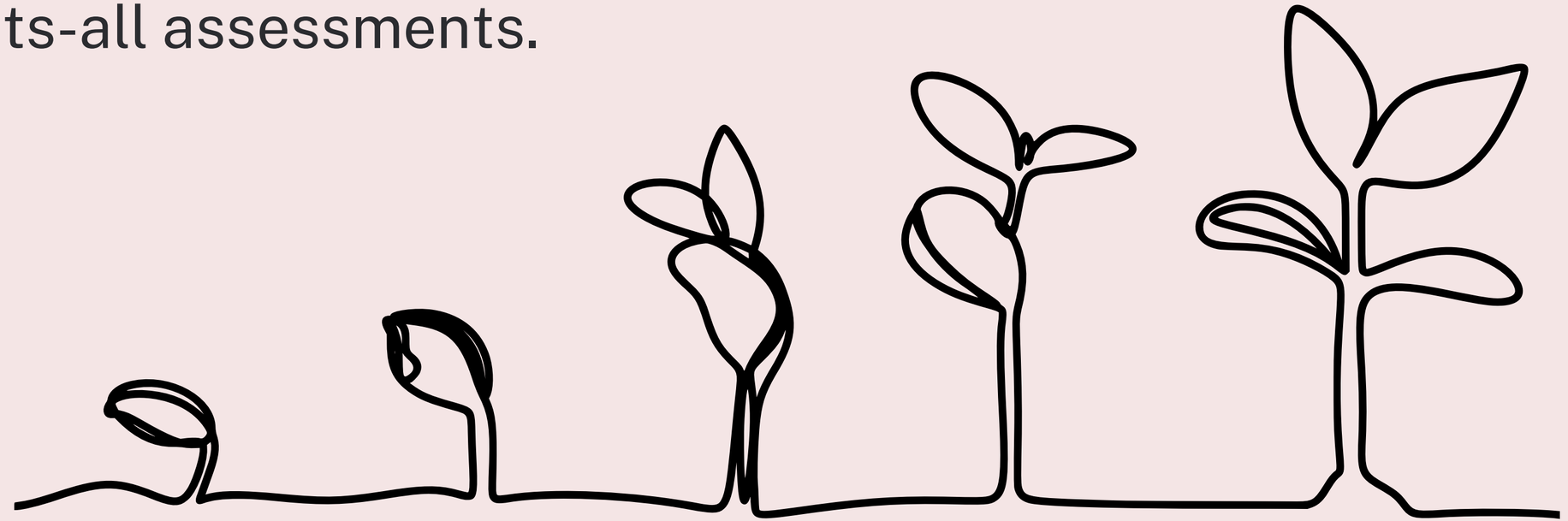
RULES OF EVALUATION

- **Encourage Growth:** Emphasize learning and progress over perfection, fostering a growth mindset.
- **Provide Timely Feedback:** Offer feedback soon after evaluation so students can learn and improve.
- **Maintain Transparency:** Be open about how grades are assigned, and provide explanations for scores when needed.
- **Respect Individuality:** Consider individual learning paces and avoid one-size-fits-all assessments.



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Thank you!

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RESOURCES:

https://www.unesco.org/en/sustainable-development/education
https://sustainabledevelopment.un.org/memberstates/sweden#:~:text=Sweden%20has%20increased%20funding%20to,and%20equality%2C%20including%20gender%20equality.
https://ecoschools-ch.org/en/what-is-eco-schools/#:~:text=Eco%2DSchools%20was%20created%20in,ESD)%20programme%20in%20the%20world.
https://ecoschools-ch.org/en/the-association/
https://www.diplomaticourier.com/posts/universal-climate-literacy-net-zero
https://www.cft.org/resolution/teaching-climate-literacy-schools
https://www.climate.gov/news-features/feed/study-demonstrates-climate-program-offices-impact-k-12-climate-literacy
https://www.bne-portal.de/bne/en/home/home_node.html
https://resource-centre.aeidl.eu/GED_CYY/194521391270/REGIO_Urban_Fredrikshavn.pdf
https://www.merriam-webster.com/dictionary/apathy#:~:text=apathy%20%E2%80%A2%20%5CAP%2Duh%2D,of%20interest%20or%20concern%20%3A%20indifference
https://www.theguardian.com/sustainable-business/2014/nov/10/brain-climate-change-science-psychology-environment-elections
https://www.britannica.com/biography/Greta-Thunberg
https://beahrselp.berkeley.edu/

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