NEW Earth Impact Detectives



Orientation

Confidential



WELCOME

We Dig Deeper!

OUR *MISSION*

Our Agency investigates the Earth's Tectonic Events & inform the public about possible solutions or action plans.

"We Dig Deeper!"

Confidential

LET'S GET *STARTED*



01 CHALLENGE

Research and analyze the region and hypothetical event assigned. Create a project to inform others about the potential impacts and propose solutions for how people can prepare and respond.

02 REGIONAL OR LOCAL EFFECTS

Your assessment should include how it would impact the local region's economic, social, physical, and daily living.

03 GLOBAL EFFECTS

Your assessment should include how it would impact global economic, social, physical, and daily living.

HOW WE *WORK*

This is the breakdown of the work within the AGILE Principles we use at EID Agency.

Phase 1 Project Kick off

This phase focuses on your planning of what each member will accomplish for the team.

Your team

- → Discusses the "Project Requirements & Inquiry List."
- → Commits to completing all "Must-Have" research questions.
- → Posts your chosen tasks on our team board/digital tool.

Phase 2 Research Cycle

Begin with your Daily Huddle, then work collaboratively to complete these tasks.

Your team

- → Conduct research using computers/devices.
- → Collaborate to answer your guiding questions.
- → Organize your findings.

Phase 3 Product Development Planning

Begin with your Daily Huddle, then work collaboratively to complete these tasks.

Your team

- → Based on your research and team strengths, **select ONE project option.**
- → Develop a plan for creating your product (who does what?).
- → Post your product tasks on our team board/digital tool.

Phase 4 Product Work Cycle

Begin with your Daily Huddle, then work collaboratively to complete these tasks.

Your team

- → Create your chosen product using materials/tools.
- → Integrate your research findings.
- → Focus on clear and effective communication.

HOW WE *WORK*

This is the breakdown of the work within the AGILE Principles we use at EID Agency.

Phase 5 Peer Feedback & Refinement

Briefly share your initial project draft with another team.

Your team

- → **Provide constructive feedback** to the other team using a checklist (focus on clarity, scientific correctness, completeness).
- → **Receive feedback** from the other team.
- → Use this feedback to **refine and improve** your project.

Phase 6 Project Showcase

Begin with your Daily Huddle, then work collaboratively to complete these tasks.

Your team

- → **Present your completed project** to the class (your "stakeholders").
- → Demonstrate what you created and what you learned.
- → Focus on your scientific findings, impact analysis, and proposed solutions.

Phase 7 Project Debrief & Reflection

Teacher guides a discussion with reflection questions.

Your team

Meet for a final debrief.

Discuss your process:

- "What part of our plan worked perfectly?"
- "Where did our process break down?"
- "What will we do differently in the next Project Cycle?"

This helps you think about how you worked as a team!

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The Daily Briefing

At the Beginning of each Class (5-7 Minutes), Your team will have a briefing. Each member takes turns answering these 3 questions, then the next member answers these 3 questions.

If there is an obstacle the team can not solve, then call the teacher over to help create a solution together



Yesterday's Accomplishments

What did I accomplish yesterday for our research?



Today's Goals

"What will I accomplish today for our research?"



Obstacles/ collaborate to solve

What obstacles are in my way?

Product Choices

01

Global News Briefing



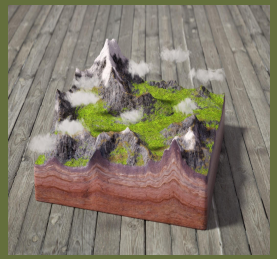
02

Impact Story



03

Tectonic Model & Safety Plan



04

Community Action Plan



Product choice 1

(Digital Presentation/Report)

“Global News Briefing"

Project: Create a short digital presentation (e.g., 5-8 slides using Google Slides or PowerPoint) or a simple written report (2-3 pages).

Content: This project should clearly explain the event's effects (both nearby and far away), provide simple scientific explanations for the tectonic processes involved, and outline a plan for how the world could respond. The plan should include ideas for international cooperation, how to monitor for danger, and ways to make communities safer in the long run.

Visuals: The project must include maps, simple drawings or diagrams of plate boundaries, and relevant pictures to illustrate the concepts.



Product choice 2

(Video/Podcast)

"Impact Story"

Project: Produce a 3-5 minute video story or a 5-7 minute podcast episode.

Content: Students will simulate a news broadcast or documentary covering their hypothetical event and its aftermath. This should include "expert interviews" (students playing roles like seismologists, climate scientists, or humanitarian aid workers), "field reports" from affected areas, and clear, engaging explanations of the scientific principles. The focus is on communicating the scientific concepts and proposed solutions in an interesting and easy-to-understand way.

Creativity: Encourage the use of sound effects, background music, and visual aids (for video projects) to enhance the storytelling.



Product choice 3

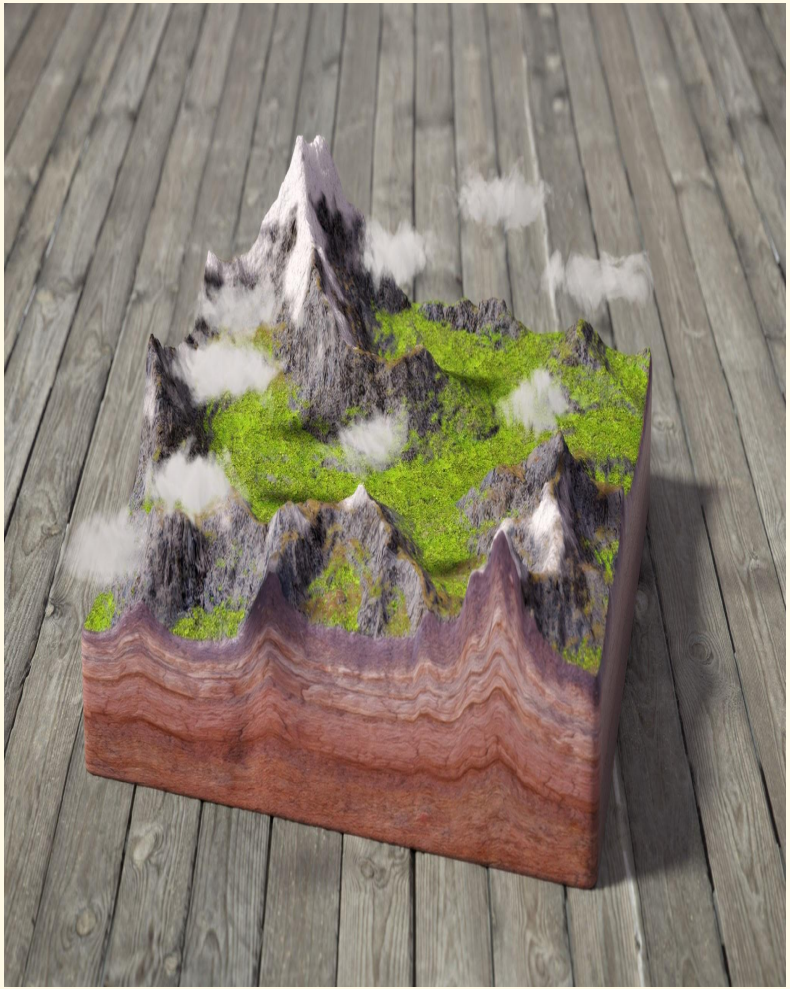
(Physical Model + Explanation)

Tectonic Model & Safety Plan

Project: Build a 3D physical model that visually represents the plate boundary and how the geological event occurs (e.g., a volcano forming at a crashing plate boundary, or land pulling apart in a rift valley).

Content: The model should clearly show the Earth's processes. It must be accompanied by a written "Safety Plan" (1-2 pages) or a short spoken presentation (approximately 3 minutes) that explains how communities could prepare for or deal with such an event, explicitly connecting their ideas to elements shown in their model.

Clarity: The model should be clearly labeled, and the explanation should directly link the model's features to the scientific concepts and proposed safety strategies.



Product choice 4

Poster/Brochure)

Community Action Plan

Project: Design a large, informative poster or a multi-panel brochure.

Content: This project would be aimed at informing a local community about how to prepare for and respond to a similar geological event. It should explain the science simply, list specific actions people can take (e.g., preparing emergency kits, identifying evacuation routes), and suggest ways the community can work together (e.g., establishing early warning systems, practicing disaster drills).

Structure: The poster or brochure should be well-organized with clear headings, bullet points, and easy-to-read information.





You have your mission EI Detectives.
We expect great things from you.

We know you will succeed in this challenge



Project Debrief - Class

Teacher Guided Discussion Questions

What were some of the obstacles that teams faced? How did your team overcome the obstacles?

What team's project or aspect of the project did you really enjoy?

Where did the project process breakdown or becoming difficult?

Is there suggestions for improving the next Project cycle?

Meet in your groups to discuss your process with each other.



Project Debrief - teams

Meet in your groups to discuss your process with each other.

1. What part of our plan worked perfectly?"
2. "Where did our process break down?"
3. "What will we do differently in the next Project Cycle?"
    - This helps you think about how you worked as a team!