EID Mission Briefing:

Your assignment as newly recruited Earth Impact Detectives (EID) will be to investigate an assigned possible hypothetical major tectonic event in an assigned area. Your team is to review their notes from the Hunga Tonga event and how it impacted local and global areas. You will need to find out what might happen if their assigned event occurred and create a project to inform the United Nations about the event (Why, close by effects, far away effects, past events) and suggest solutions.

Your Assigned Tectonic event; _____

Your Assigned Tectonic region; _____

As Earth Impact Detectives, we utilize cutting edge collaboration principles called AGILE Principles. Your team will use these principles in Daily Briefings at the beginning of the class period. If you have any obstacles to report make sure you report them to your Supervising Director (Teacher).

Your first Project cycle will be to research your tectonic event. Your project cycle is 2 class periods. Your team should create a shared folder for all of your research to collect sources, notes, images and materials.

EI Detectives: You were trained in the proper development of AI Prompts. Your team should collaborate to develop detailed prompts to assist in your research by using AI. You can use these guiding questions to help stimulate your discussions and prompt development. An AGILE Principle would be to divide the possible tasks into manageable parts for team members to focus their efforts on, but still collaborate with their team. So it might be wise to divide the guiding questions into a manageable set of tasks for each member to accomplish. Take notes about what you accomplished, because you will be discussing your accomplishments in Daily Briefings with your team.

RESEARCH GUIDING QUESTIONS

- **Where and Why:**
  - What type of plate boundary is involved in your event? (Is it where plates are crashing together, pulling apart, or sliding past each other?)
  - What specific earth processes are happening at this boundary? (For example, is one plate sinking under another, is new land forming, or are large cracks in the Earth's crust breaking?)
  - Where in the world is this event happening? (Use the real, plausible location for your hypothetical event. What are the names of the plates or geologic

structures involved?)

- **Immediate Effects (Close By):**
  - What are the direct dangers that would happen right away in the area closest to the event? (e.g., ground shaking, very large waves, ash falling from the sky, the ground changing shape).
  - How would these immediate dangers affect people living nearby, their homes, schools, and local communities?
- **Wider Effects (Far Away):**
  - **Air:** How might the event affect the air we breathe or how airplanes fly around the world? (Consider effects like volcanic ash clouds or tiny particles in the atmosphere that could block sunlight).
  - **Ocean:** What could happen to ocean animals, ocean currents, or even global sea levels? (Think about tsunamis or changes in ocean temperature).
  - **People's Lives:** How could the event affect global communication (like phone calls or internet), shipping routes for goods, electricity supplies, or even the availability of food in different parts of the world?
  - **Community:** What broader problems might arise for people, economies, or governments across the world? (Consider humanitarian aid, financial disruptions, or political cooperation).
- **Past Events:**
  - Can you find any real historical events that are similar to your imaginary one? What can we learn from what happened during those past events?
  - Are there any chronological patterns between occurrences of past events? Could you use this information to better inform residents about a range of time where an event could occur?