



How would it be to live on an Earth without EARTHQUAKES?

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It is the first time that I have the opportunity to work for 15 lessons in a Science laboratory with a group of 20 students. These students are 11 to 14 years old, so their prerequisites differ a lot. That is why I decided to start this project asking them some questions to stimulate their interest.

1st question: What is the weather like where do you live today and which are the exogenous agents connected to it?

The first part of the project consists in experimenting into the laboratory both the physical and chemical concepts that will be necessary to understand dynamic processes. Via laboratory experiments, we will introduce concepts like pressure, temperature, water cycle, density. If necessary, students will develop data and draw graphs. These concepts will be useful to describe exogenous agents and find out that the sun is the one that gives the engine.

2nd question: Where in the Earth does the heat come from, and which are the endogenous agents?

The second part of the project consists in studying and explaining Earth structure, Plate tectonics and earthquakes position on the maps, looking at videos and power point presentations. These contents will enable the students to formalize endogenous agents and find out that is the radioactive core that heats.

3rd question: Now compare and analyse. Which are the areas where it is possible to connect climate and geological substrate?

The third part of the project consists in analysing and comparing a climate map and a Plate tectonic map of the Earth. For instance, it will be possible to associate desert zones with craton ones. The final aim consists in producing a scheme that makes a correlation cause – effect between exogenous agent and endogenous ones and revers.

4th question How would it be to live on an Earth without earthquakes, as well as without tectonic Plate?

Now it is possible to find out the answer to our main question: Life is possible because of earthquakes!

We could change this question and say:

“Would it be possible to live on Earth without earthquakes?”