

Karin Lindner and Bradley Harpham | Obersee Bilingual School | Wollerau | Switzerland

Active Planet: Interdisciplinary Project

Earthquakes: How they form and how to measure them

COLLABORATION IN STEM EDUCATION

The tectonic plates that form the Earth's crust are always moving. Even the smallest movement can cause huge earthquakes, volcanoes and tsunamis that devastate communities across wide





areas. If we can understand what is happening underground, we can learn to predict and protect ourselves in the future.

Through cross curricular activities, children were able to build their own seismograph, visualize the earth's movements, digitally record the data and present this using coding. The children wrote the instructions for their activities in both English and German, creating digital online books.

This project is aimed to make learning real, relevant and future focused.



Our project:

- Promotes the interest of our students.
- Is connected to real life
- Intensifies learning through the connection of all subjects
- Can be carried out easily and inexpensively in the classrooms
- Supports learning that is scientifically based

This project was extended further through the design, building and evaluation of earthquake resistant buildings and continues to be relevant to their ongoing studies and future work.

