



PREPARATION

THEME: WHEN THE EARTH MOVES

MYSTERY BAG

A GLOBE OR ATLAS
(IF NEITHER THEN A BALL)



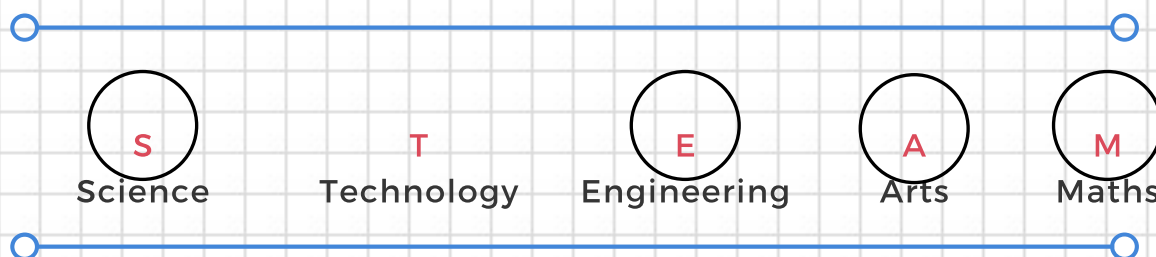
EXPLORATION RESOURCES

- PIECE OF PAPER
- BLOCKS OR BRICKS
- OPTIONAL: PAPER/PLASTIC CUPS
- LARGE BAKING TRAY
- SAND OR PLAYDOUGH
- 200ML PLASTIC BOTTLE
- BICARBONATE OF SODA (BAKING SODA)
- WASHING UP LIQUID
- VINEGAR
- IF POSSIBLE: LARGE PAPER/CARD & PAINT
- OPTIONAL: RED FOOD COLOURING



EXPLORATION

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Questions/Ideas:

Earthquakes: Can you make the paper show a small earthquake for 10 seconds? Now a big one. What happens when you stand something up on the shaking earth? Can you build a tower that can stay up in a big earthquake? What kind of tower is the strongest?

Tsunamis: What happens when there is an earthquake out at sea? How does the size of the earthquake change the size of the waves? How does the length of the earthquake change the waves? Can you build something on the beach that can stand the tsunami?

Volcanoes: What happens when a volcano erupts? Do you remember the name for what comes out the top? [lava] What will happen to the liquid in our bottle when we add the vinegar? Watch how the lava flows. What do you think will happen if we do it again with more/less bicarbonate of soda?

Learning:

Science: Earth science: earthquakes, tsunamis, volcanoes, their effects and related language; Reactions.

Engineering: Building earthquake proof towers; Building tsunami proof structures.

Arts: Painting the volcano sides.

Maths: Counting 10-30 seconds for earthquakes; Comparative language: more/less, bigger/smaller; Measuring ingredients for volcano.

