

# WORLD BOX - 1959 - PHILIPPINES

## Theme – Building Tomorrow Today

### Activity – Make a Volcano

#### What you need

For the Volcano:

- A3 Card
- 200ml Plastic Bottle
- Paint and Paintbrushes
- Scissors, Pencil and Tape

For the Eruption:

- 1 tsp Bicarbonate of Soda
- 1 tsp Washing-up liquid
- 2 tsp Water
- ½ Cup of Vinegar
- 1 tsp Red Food Colouring



#### Join in the Jamboree

There are 53 volcanoes in the Philippines which belong to the Pacific Ring of Fire. The volcanoes of the Philippines rank as the most deadly and costly in the world: about 13% of its historic eruptions have caused fatalities, most notably at Taal and Mayon, and 22% of its eruptions caused significant damage. Lahars (mud flows) are very common in the Philippines, because the archipelago has often heavy rains. Tsunamis accompany eruptions in the Philippines more often than in any other volcanic region.

Since the establishment of PHILVOLCS (the Philippines Institute of Volcanology and Seismology), the impact and damage of the eruptions has been significantly reduced.

How to make an erupting volcano model:

1. Place your bottle upside down in the centre of a sheet of card and draw a small circle around the neck.
2. Cut a straight line through the card to the middle of the circle and cut around the bottleneck circle.
3. Overlap the two sides of the card to make a cone shape. Tape this into place, leaving a hole where you cut out the centre circle. Cut around the base of the cone so that it sits flat, but make sure that it is still taller than your bottle.
4. Place the cone over the bottle. Tape the top of the paper cone to the neck of the bottle to hold it in place.
5. Tape the base of the cone to the other sheet of card and use paint to decorate the cone as a volcano.
6. In a bowl, combine the bicarbonate of soda and washing up liquid. Add the water and mix thoroughly. Pour this mixture into your volcano. In a cup, mix together the vinegar and food colouring.
7. Pour the vinegar into the bottle with the bicarbonate. Wait for it to erupt and see how the lava flows.

#### Safety Notes:

**Fumes and Fluid:** Take care when handling the eruption ingredients and stand back when watching the eruption to make sure you don't get any in your eyes. Make sure you are working in a well-ventilated area.

To make cleaning up easier, it's best to stand your model on a wipe-clean surface.

