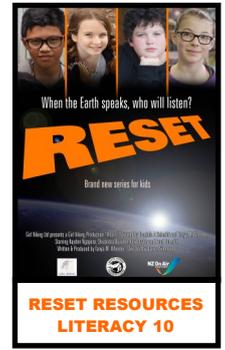


## MAKING PLANS —WEBISODE 9 OF RESET:

LUKE and HEATHER decide to go to a Science Lab classroom and try to work out what the orange ooze is made of. They take a sample and test the acidity, and look at it under a microscope. LUKE makes a discovery, that the main component of the orange goo is Iron Oxide. The chemical code for Iron Oxide (Ferrous Oxide) is  $\text{Fe}_2\text{O}_3$ .

There is a clue about future storylines for RESET in the uses for Ferrous Oxide in real life. If you look up what it is used for, you might figure it out!



## SOME SCIENCE STUFF:

Science experiments you can try in class can be found at this website:

<http://www.sciencekids.co.nz/experiments.html>



Think about the orange ooze... what things could you do to test its properties? Think about hot and cold, dilution, adding acids (like vinegar or lemon juice), or heating until it evaporates and looking at the gases released by the substance.

Decide what you would like to do to your ooze, and DESIGN your own science experiment. Write INSTRUCTIONS for your experiment. Make sure it is STEP-BY-STEP and that you include the EQUIPMENT and INGREDIENTS you need to do your experiment.

For example:

### HEATING THE OOZE

**Prediction:** That the ooze will reach boiling point below 100 degrees Celsius (boiling point of water).

1 x sample of ooze	1 x beaker
1 x pot	1 x heat source (stove top)
1 x timer	1 x candy thermometer
1 x oven mitt for moving hot things	

#### Instructions:

- 1) Place ooze in pot
- 2) Place pot on heat
- 3) Start the timer
- 4) Place the candy thermometer into the pot with the ooze
- 5) Bring the ooze to the boil (when rolling bubbles appear in the goo)
- 6) Check the time when it starts to boil to determine the time it took from start to boiling
- 7) Check the temperature of the ooze on the candy thermometer to see if its boiling point was higher or lower than 100 degrees Celsius.
- 8) Write a report about the outcomes
- 9) Clean up—be careful to let things cool down before you touch them