

What will you choose to do?

- Make a list of foods that change state when heated or cooled, such as eggs, water, butter and chocolate. Plan and make an 'alchemist's banquet' for your family, and include foods from your list. You could add a bit of sparkle by sprinkling edible glitter or miniature silver and gold balls on top!
- Describe the scientific changes that take place in each of the dishes at your alchemist's banquet.
- Find out if your family owns anything containing gold or another precious metal or gemstone. What can you find out about where it came from?
- How many synonyms can you find for the word 'portal'?
- Find out about (and watch!) films that show portals to other worlds, such as *Harry Potter and the Philosophers Stone* and *Star Trek*.
- Read *The Lion, the Witch and the Wardrobe* or *Harry Potter and the Philosopher's Stone*. Write a review for your friends; be sure to describe the main characters.
- Find out what work is carried out by an Assay Office. You may have a local office that you can visit.
- Visit your local museum or library and use historical maps to find out where local wells used to be.
- Find out the atomic numbers and symbols for metals such as lead, copper, silver, zinc, iron and platinum.
- Use a magnet to test the magnetic properties of metals around your home and record your discoveries in a data table.
- Design a costume and travel kit for an alchemist. What useful things might an alchemist pack in a suitcase?
- Combine art and science to make an astonishing and unique gemstone! Experiment with materials such as wax, resin, plaster and jelly!

