

## Introduction

This game is a revision activity to a lesson or series of lessons on states of matter.

## Running the activity

Give each pupil three small pieces of coloured card about 10 cm square (one red, one yellow or orange, one green). These are used to signal their answers.

Red means SOLID.

Yellow or orange means LIQUID

Green means GAS.

The activity begins with straightforward examples, but then goes onto some materials that are much harder to classify. Pupils may need extra cards or to answer in pairs, as some of the examples are mixtures of two states.

The game follows this sequence:

- Read the question.
- Allow a short period of time for pupils to consider their answer.
- Count "1,2,3 Show your cards!"
- Pupils all hold up one of their card at the same time.

## Safety

Not applicable.

## More ideas

Use the red, yellow and orange cards to denote true, false and don't know / can't know for a series of questions

## Learning outcomes

- Revising and consolidating states of matter.

## Where the activity fits in

KS2 QCA SoW 4D and 5D  
KS3 QCA SoW 7G

## Skills

Recall.

1. Rock  
Solid
2. Water  
Liquid
3. Air  
Gas
4. Oxygen  
Gas
5. Ice  
Solid
6. Helium  
Gas
7. Sand  
Solid
8. Cement  
Solid
9. Carbon dioxide  
Gas
10. Petrol  
Liquid
11. Cooking oil  
Liquid
12. Rubber  
Solid
13. Jelly  
Liquid in a solid lattice
14. Cream  
Two liquids in an emulsion, they can separate when the cream turns to butter.

15. Whipped cream  
Gas in a liquid
16. Clouds  
Liquid suspended in a gas
17. Toothpaste  
Solid in a liquid
18. Paint  
Solid in a liquid if school paint  
Emulsion paints are two liquids, one watery one oily
19. Vaseline  
Liquid , but a thick liquid
20. Sponge cake  
Gas in an elastic solid
21. Meringue  
Gas in a hard solid
22. Cloth  
Solid
23. Bonfire Smoke  
Solid particles (soot) and liquid droplets (tar) suspended in a gas