



Let's Talk About States of Matter

**STEM Education worksheet provided by
Dundee Science Centre.**

These worksheets work in conjunction with our **Let's Talk About** video series that can be found on our Instagram [@dundeesciencecentre](#).

They are designed to engage and educate on interesting science topics to support the curriculum for learners of all levels.



Make Your Own Oobleck

Oobleck is a material which doesn't fit easily into the categories of solid, liquid or gas. It acts like a liquid when it's left alone but acts like a solid if you squeeze or hit it. This means it's a **non-newtonian fluid**. Learn how to make your own to experiment with at home!

You will need

- 2 Cups of cornflour
- Food colouring (optional)
- 1 ½ Cups of water
- Mixing bowl

Instructions

Step 1: Oobleck can get messy, so protect your clothes and your work area! Ask an adult to help, roll up your sleeves and maybe wear an apron. Work somewhere that can be easily wiped clean, or put some newspaper down to protect your surface.

Step 2: Measure the cornflour into your mixing bowl.

Step 3: Measure the water and, if you want to colour your oobleck, add a couple of drops of food colouring.

Step 4: Add the water to the mixing bowl a little at a time and gently mix.

Step 5: Once the water and the cornflour are combined, your oobleck is ready to investigate. Try squeezing it. What happens if you try to pour it? If the oobleck seems too wet, you can add a little more cornflour, or if it seems too dry, you can add a little more water.



Fill in the Blanks

The three most common _____ of matter on Earth are solid, _____ and gas. A material will change what state it is in depending on the _____. If a solid gets hotter it can _____ and turn into a liquid. The reverse, a liquid turning into a solid, is called _____. A liquid can turn into a gas if its temperature _____ which is called evaporation. A gas can turn into a liquid if it gets colder which is called _____.

Word Bank

temperature

condensation

states

liquid

melt

freezing

increases



States of Matter Scavenger Hunt

Have a look around your home for different things that are solids, liquids or gases and write them down or draw them in the sections below. Which did you find the most of?

Solid

Liquid

Gas



States of Matter Word Search

Q	O	O	B	L	E	C	K	I	G
F	T	L	R	P	L	A	S	M	A
R	S	C	I	C	E	M	E	O	S
E	T	H	I	Q	N	A	R	L	B
E	E	R	N	C	U	N	E	E	I
Z	A	T	P	R	V	I	G	C	H
I	M	S	O	L	I	D	D	U	R
N	C	D	K	E	H	Z	K	L	I
G	M	E	L	T	I	N	G	E	S

SOLID
MELTING
OOBLECK

LIQUID
FREEZING
ICE
STEAM

GAS
PLASMA
MOLECULE