## Tuesday 26th January 2021 - Science 1

WALT: Identify and group different solids, liquids and gases.

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Think back to the Science you did in wee	zk I of the Sprinç	j Term - What are
the three states of matter?		
1)		
2)		

Watch the clip: Are you correct?

3)\_\_\_\_\_

https://www.bbc.co.uk/bitesize/topics/zkgg87h/articles/zsgwwxs

Don't forget to play the game too!

## Task 2 <u>Is it a solid, liquid or a gas?</u>

Find examples of solids, liquids and gases in your kitchen. Fill in the grid below:

Solids	Liquids	Gases

## Task 3

What are particles and why is that important when learning about solids, liquids and gases?

https://www.youtube.com/watch?v=gez2rmeCpfE

Using	the in	formation	from	the clip	ı, draw	in the	particles	that show	a
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Solid	Liquid	Gas

Now that you have seen how solids, liquids and gases behave, fill the gaps in the paragraph. Use the words in the box below to help you. Cross each one off as you use it.

Liquids, so.	lids and g	ases are all	made up	of	· · · · · · · · · · · · · · · · · · ·	
In a solid .	A	are held very	<i>2</i>	together to for	rm a <b>regular</b>	and
they can ju	st	_+.				
In liquids t	they are	toge	ther, but	they can	past each other.	and they
have	regular _	·•				
In gases, ii	nstead,	are f	Pree to	in all	at a very high	speed.
move	close	tiny	no	slide	directions pattern	
particles	vibrate	particles	tightly	pattern	particles	

Optional challenge: Play the game to help recap what you've learnt in class time. http://www.crickweb..co.uk/ks2science.html#changingstate

## Science - Thursday 28th January 2021

WALT: observe that some materials change state when they are heated or cooled.

WALT: carry out a fair test. What is a fair test?

https://www.bbc.co.uk/bitesize/topics/z2ddmp3/articles/zpctrwx

Key vocabulary - I hp for every key word you use to explain your experiment.

Freeze - To change a liquid into a solid

Freezing point - Temperature at which a liquid changes into a solid.

**Liquid** - Something that flows easily

Solid - something that has a definite shape and valume

You will now undertake an investigation looking at freezing points.

Investigation: What are the freezing points of different materials?

Ltern.	What I think is gaing to happen (prediction)	Haw much of the liquid will be used? (Remember to make this a fair test!)	What had happened after leaving it in the freezer far <u>I haur</u>	Was I right? Can yau explain why yau were right?
Saup				
Olive .ail				
Tamato Ketchup				
Galden Syrup				
Water				

How	did	you	make	your	experimen	t a fair	test?		

Optional challenges - If you'd like to do some more experiments at home here are some ideas:

- Which type of chocolate melts fastest? (Always remember to get an adult to supervise you if you are working with hot liquids.)
- Which magnet is the strongest?
- Which material is most suitable for an umbrella?
- Does a plant need light to grow?
- · How can you go faster down a slide?
- Which kitchen towel absorbs the most liquid?
- Which shaped ice cube melts the fastest?

For each investigation consider what variable will change and which variables need to remain the same to make it a fair test. Think about what you are measuring. What equipment do you need? Can you make a prediction (a good guess, with a reason) before you begin?

Don't forget to make your experiment a fair test!