Tuesday $26^{\text {th }}$ January 2021 - Science 1
WALT: Identify and group different solids, liquids and gases.
Task 1
Think back to the Science you did in week I of the Spring Term - What are the three states of matter?
I) $\qquad$
2) $\qquad$
3) $\qquad$

Watch the clip: Are you correct?
https://www.bbc.co.mk/bitesize/topics/rkgg87h/articles/rsgwwscs
Don't forget to play the game too!
Task 2
Is it a solid, liquid or a gas?
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? $N=$ gez 2 rmeCpfE
Using the information from the clip, draw in the particles that show a...

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, solids and gases are all made up of $\qquad$
$\qquad$ .

In a solid $\qquad$ are held very $\qquad$ together to form a regular $\qquad$ and they can just $\qquad$ + .

In liquids they are $\qquad$ together, but they can $\qquad$ past each other and they have $\qquad$ regular $\qquad$ .

In gases, instead, $\qquad$ are free to $\qquad$ in all $\qquad$ at a very high speed.

| mave 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. $\mathrm{Hk} / \mathrm{ks} 2$ science.html\#changingstate

Science - Thursday $28^{\text {th }}$ 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://wwww.bbc.co.uk/bitesize/topics/ת2ddmp3/articles/rpctrw $x$
Key vocabulary - 1 hp for every key word you use to explain your experiment.
Freeze - To change a liquid into a solid
Freering point - Temperature at which a liquid changes into a solid.
Liquid - Something that flows easily
Solid - something that has a definite shape and volume
You will now undertake an investigation looking at freezing points.
Investigation: What are the freezing points of different materials?

| Ltem | What I think is gaing to happen <br> (predictian) | Haw much of the liquid <br> will he used? <br> Rememher to make this <br> a fair testl) | What had happened after leaving it <br> in the freeser far Lhour | Was I right? Can yau <br> explain why yau were <br> sight? |
| :--- | :--- | :--- | :--- | :--- |
| Saup |  |  |  |  |
| Olive <br> ail |  |  |  |  |

How did you make your experiment 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 absoxbs 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!

