Science W/C 11.5.20

Please watch this video to help recap your knowledge of solids, liquids and gases (states of matter)

<https://www.youtube.com/watch?v=RuP5FmFcPmY>

Please complete the work below.

**How are the particles different in a solid, a liquid and a gas?**

Match the picture to the phrase.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Solid** |  |  | | |
| The particles in a solid are tightly packed and in a regular pattern. | **4** | 1 | 2 | 3 |
| They vibrate and are held together with strong bonds. |  |
| The solid cannot change shape. |  |
| You cannot squash a solid. |  |  | | |
| **Liquid** |  | 4 | 5 | 6 |
| The particles in a liquid are not so tightly packed. |  |
| They can move past each other. |  |  | | |
| The liquid changes shape to fit its container. |  | 7 | 8 | 9 |
| You cannot squash a liquid. |  |
| **Gas** |  |
| The particles in a gas are widely spaced. |  |  | | |
| They can move freely. |  | 10 | 11 | 12 |
| The gas fills its container. |  |
| You can squash a gas. |  |

**Write sentences about the different states of matter using the tables below:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| The molecules in a | **solid** | are | tightly packed | and can | only vibrate. |
| **liquid** | further apart | move past each other. |
| **gas** | widely spaced | move freely. |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A **solid** | can | change shape | and | it | can | be squashed. |
| A **liquid** |
| cannot | flow | but | cannot |
| A **gas** |

**Put the words below in the correct order to make sentences about states of matter:**

**a becomes . When it melts a solid , liquid**

1.

……………………………………………………………………………………….

2.

**becomes a , it When a solid . liquid freezes**

……………………………………………………………………………………….