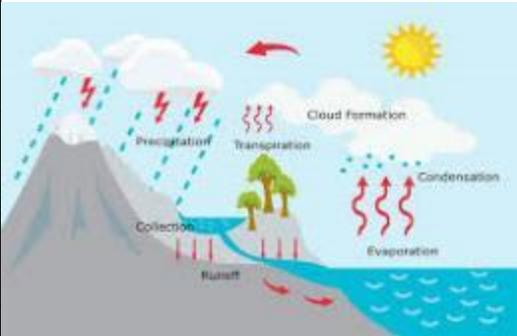


Year 4: States of Matter Knowledge Mat

| Subject Specific Vocabulary | | Stages of the water cycle | | Sticky Knowledge about states of matter | | |
|-----------------------------|--|--|--|---|---|---|
| water vapour | Water that is in the form of gas. | 1 | The sun heats up rivers, lakes and the sea | 1 | Water can exist in three forms: liquid (water), solid (ice) or gas (water vapour). | |
| condensation | When water vapour that is around us changes from a gas back to water. | 2 | Water evaporates into the air. This is called water vapour. | 2 | | About 70% Earth is covered in water. |
| precipitation | Any watery substance such as rain, water, snow, hail or sleet that falls to Earth. | 3 | The water vapour rises, cools and turns back to water in the form of clouds. | 3 | A solid keeps its shapes unless a force is applied on it. Solids don't flow or spread out easily. | |
| evaporation | When liquid changes into gas, usually when it heats up. | 4 | The droplets in the clouds become too heavy and fall as rain, snow or hail. | 4 | A liquids doesn't have a fixed shaped. It can flow and takes the shape of its container. | |
| substance | Any solid, liquid, powder or gas is a substance. | 5 | The rain, snow or hail is then collected in rivers that run off to the sea. | 5 | | A gas doesn't have its own shape. It spreads out in all directions to fill the shape of the container it is in. |
| matter | Any solid, liquid or gas that exists in the universe. | 6 | The cycle starts again. | 6 | Reversible changes- this means that the change can be undone and the material can go back to how it was before. | |
| particle | A minute portion of matter. |  | | 7 | | Irreversiblel changes- this means that change can't be undone and the material cannot go back to how it was before. |
| solid | A substance that stays the same shape. It particles do not move | | | 8 | Humans are made up of about 75% water. | |
| liquid | Liquids will flow, it is made up of loosely packed particles. | | | | | |
| gas | Gaseous matter is made up of matter that is so loose that it is always moving. | | | | | |
| substance | Any solid, liquid, powder or gas is a substance. | | | | | |