Class 2 **Madron Daniel Science Small Step Progression**

States of Matter – Year 4 Unit – Year D

Retrieval vocab: N/A
New Vocab: Solid, liquid, gas, state change, melting, freezing, melting point, boiling point, evaporation, temperature, water cycle

Previous learning
- Distinguish between an object and the material from which it is made. (Y1 - Everyday materials)
- Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. (Y1 - Everyday materials)
- Describe the simple physical properties of a variety of everyday materials. (Y1 - Everyday materials)
- Compare and group together a variety of everyday materials on the basis of their simple physical properties. (Y1 - Everyday materials)
- Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. (Y2 - Uses of everyday materials)
- Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. (Y2 - Uses of everyday materials)

Links with Vision and Values.
Stimulate in every child a sense of curiosity and excitement about the world

	Working scientifically/ enquiry focus	Curriculum Strand/ Focus	Small step objective	Previous learning within the unit.	Lesson content	Outcome
1	Identifying and classifying	States of Matter	Compare and group materials together, according to whether they are solids, liquids or gases	*N/A*	What are the three states of matter?	The children can: Compare and group materials together, according to whether they are solids, liquids or gases. Understand the particle structure of solids, liquids and gases.
2	Identifying and classifying	States of Matter	Identify the properties of solids and liquids	*Compare and group materials together, according to whether they are solids, liquids or gases. Understand the particle structure of solids, liquids and gases.*	How do particles behave differently in different states?	The children can: Identify the properties of solids and liquids
3	Comparative/ Fair testing	States of Matter	Explain how solids and liquids melt and solidify.	*As above Identify the properties of solids and liquids*	What is the melting point of chocolate?	The children can: Explain how solids and liquids melt and solidify.
4	Comparative/ Fair testing	States of Matter	Investigate evaporation using water as an example	*As above Explain how solids and liquids melt and solidify.*	How can we prove that water has evaporated from drying clothes?	The children can: Explain evaporation using water as an example.

Class 2 **Madron Daniel Science Small Step Progression**

5	Identify/Classify	States of Matter	Explain condensation using water as an example.	*As above* *Explain evaporation using water as an example.*	How can evaporated water become liquid again?	The children can: Explain condensation using water as an example.
6	Identify/Classify	States of Matter	Understand the changes of state in the water cycle	*As above* *Explain condensation using water as an example.*	What are the changes of state in the water cycle?	The Children can: Explain the changes of state in the water cycle and why they happen.