Science Medium Term Plan
Year 2 Spring Term 1

How do we make the most of materials around us?

What are the different uses for glass, wood, metal, plastic and brick?	**Which materials are most suitable for absorbing water?**	**Which materials can be squashed, bent and twisted?**
Are some materials more suitable than others?	**Who are the important people who have developed different materials?**	

Substantive Knowledge

- Know why some materials are more suitable than others for specific uses.
- Know why glass, wood, plastic, brick or paper would be used for certain jobs.
- Know that some materials can squashed, twisted or bent.
- Know why certain materials are suitable for many uses.
- Know about the lives of important people who have developed useful materials (inventors).

Disciplinary Knowledge

Working Scientifically

Fair testing • Compare materials to see which is most absorbent • Compare which materials can be squashed, bent and twisted	**Grouping and Classifying** • Group different materials based on their properties.

Need to know knowledge:	Vocabulary: (including definitions)	
• **Know that some materials are used for more than one thing.** • **Know that there are different types of the same material.** • **Know that different materials can be used for the same thing.** • **Know that some materials can be stretched, bent, squashed, twisted for their purpose.** • **Know that Charles Mcintosh invented the macintosh coat**	**stretch**	**Change the shape by pulling to make it longer or wider**
	squash	**Pushing things closer together**
	bend	**Changing the shape and direction of a material**
	twist	**Moving one part one way and the other part another way**

	absorb	**Takes in water**
	suitable	**The right material for it's use**
	inventor	**Someone important who has discovered or made a new material**

Prior Knowledge:

Early Years

- The three little pigs story (materials and houses)
- Construction
- Exploring materials through play

Year 1

- Names of materials
- Properties of materials
- Simple investigations (waterproof and warmth)