

# Science Knowledge Building

Know that some man-made materials are made to be useable for items	Know how to improve an investigation through making adaptations e.g. change one thing	Discuss and compare materials, both man-made and natural, to explain why some materials are chosen for certain purposes	Know and understand the terms 'classify', 'criteria', 'properties', 'flexibility' and 'absorbency'	Understand how the cotton industry has had an impact on farming in the Americas	Know that technology is being developed to ensure manufacturing is becoming more environmentally friendly
Know the basic changes that cotton undergoes as part of the manufacturing process	Know how to develop an experiment based on cotton, showing a clear focus on one quality of the material	Understand, through observation, why cotton is a good material for moisture control in hot weather	Know and understand the terms 'man-made', 'natural' and use in different contexts	Know that the cotton industry developed into a manufacturing process that involves many countries	Explore ways of producing materials so they have a global benefit
Understand that numerous factors can affect or prevent change	Know what makes a good methodology and explain how adaptations can lead to improvements	Identify, analyse and explain findings to support or dismiss theories or arguments	Know how to use a range of scientific vocabulary in various contexts	Know that science has implications for world issues and that it can be used for good or bad	Understand how their own STEM skills can benefit future science work in school and beyond
<b>Processes and Changes</b>	<b>Methods</b>	<b>Observing and Recording</b>	<b>Scientific Vocabulary</b>	<b>Uses and Implications</b>	<b>Cross-Curricular (STEM)</b>

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