

Science Home Learning Grid



Overview	Choose a Challenge	Knowledge Organiser
We are learning to compare and group together everyday materials on the basis of their properties. These properties include their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.	In the Blended Learning Activities below you will find three challenges. Challenge One is the basic challenge and supports the learning completed in class. Challenge Two involves more thought and further develops the classroom learning. Challenge Three is designed to extend and deepen the class learning. Choose one Challenge to complete each week	The knowledge organiser contains details of learning for this topic. Within the knowledge organiser, the key vocabulary contains essential words to learn to define, spell and use during this learning. Remember to use the key vocabulary regardless of which challenge you choose.
Week One & Two Due 21/9/26	Week Three & Four Due 5/10/26	Week Five & Six Due 19/10/26
INTRODUCTION	MATERIAL DESIGN	TESTING AND COMMUNICATING
Challenge One - Learn Read the Knowledge Organiser and highlight any key facts that you did not know.	Challenge One – Learn Natural, Converted Raw Materials and Synthetic Use these headings to create an information sheet explain their meaning. Find examples around the home to illustrate each different type of material.	Challenge One - Learn Absorbency Use four different materials (for example, tin foil, plastic wrap, fabric, paper). Which is the most absorbent? How could you test this?
Challenge Two - Develop Read the Knowledge Organiser and highlight any key facts that you did not know. Research one key fact.	Challenge Two – Develop Material Design Why is pan made from metal? Find items around your home that have been designed for a specific purpose. What are they made from? Why? Why is a washing-up bowl made from plastic?	Challenge Two - Develop Absorbency Use four different materials. Which is the most absorbent? Design and carry out an experiment to test this? How will collect your results? How will you draw your final conclusion?
Challenge Three - Extend Read the Knowledge Organiser and highlight any key facts that you did not know. Research and write about these key facts.	Challenge Three – Extend Find items around your home that have been designed for a specific purpose. Photograph or draw each object and add labels outlining the type of material (natural, converted raw, synthetic) and its properties.	Challenge Three - Extend Scale Model How small is small? Create a scale model to demonstrate the relative size of atoms. Your model could be presented in the form of a poster, flow chart, labelled diagram.
Week Seven - SCIENCE ASSESSMENT		Wednesday 21 st October 2026
It is essential to revise ALL the learning on your knowledge organiser. This includes the vocabulary. Learn to read, understand, define, spell and use the twelve scientific words.		