

Year group: Year 5

Term: Spring 2

Project title: Record Breakers – Can we create a bouncy ball?

Project and Exhibition: A class presentation of our learning outcomes

Project synopsis: Learners will review the principles of working scientifically and the knowledge of Changes of state/properties of materials. They will apply this knowledge to a science investigation and present its outcomes in a scientific report.

Communicating learning:

Learning will be communicated through 2 engaging home learning tasks which allow the students to demonstrate their learnings to the adults in their lives.

Project outcomes:

Reviewing a model of a science investigation and demonstrating understanding of the different sections.

Planning, executing and reviewing a science investigation.

Curriculum opportunities:

English: Learners will assess a scientific report for language and organisational features. They will use these features to independently produce scientific reports. Learners will engage in guided reading texts which has strong links to STEM.

Maths: Learners will take readings over periods of time and record these. Learners will use data gathered to produce graphs.

Science: Learners will conduct a series of experiments which allow them to test hypothesis around materials and their properties/changing states. e.g. what material is a good conductor? Which material is best for slowing down heat loss from water? They will design an experiment with their peers, ensuring that it is a fair test, and observe over time to record their results.

Humanities: Learners will make links to the wider humanities curriculum drawing parallels where relevant. e.g. the water cycle, weather.

Creative arts: Learners will capture elements of their reading as art building on their success in Art Week.

STEM: There will be opportunities for learners to use technology to support their science investigations and to record their ongoing learning.

Outdoor Learning: The Forest School team will seek opportunities to make links to the curriculum where relevant.

Engagement Activity:

Learners will complete an engaging science investigation at the start of the unit of work which will introduce them to the key themes.

Key Vocab: Language related to Changes of State and properties of materials.

- Evaporate
- Condensate
- Reversible
- Solution / solvent
- Translucent
- Impermeable
- Polymer
- Molecule
- Transformation

How you can help:

Complete the knowledge organiser task for homework.

Engage your child in questions which build on their learning.