Science Curriculum Journey

(Materials and States of Matter and Rocks)

Reception

I can make decisions about how to approach and solve a problem and reach a goal.

I know some materials and living things have properties, which are similar, and some are different and that changes occur.

Year 1

I can gather and record data to help answer questions.
I can name and group different materials and say what why their properties makes them useful for as the material for everyday objects.

Year 2

I can perform simple tests to identify and group items.
I can identify and compare a variety of everyday materials and say how they change by applying a force.

Year 3

I can collect, classify record and present data in a variety of ways e.g. charts, tables and graphs.
I can compare and group together different kinds of rocks from their appearance and properties and describe how fossils and soil are formed.

Year 4

I can identify similarities and changes after testing scientific ideas.
I can compare and group materials together, according to whether they are solids, liquids or gases.
I know some materials change state when they are heated or cooled and evaporation and condensation in the water cycle relate to temperature.

Year 5

I can plan experiments to answer questions whilst controlling variables.
I can compare and group together everyday materials based on their properties.
I know some materials will dissolve to form a solution and that this can be reversible (or may form a new material).

Year 6

Year 7

I can use appropriate techniques, apparatus, and materials during field-work and laboratory work.

I know the changes of state in terms of the particle model.