

# Purbrook Infant School

## Problem Solving Medium Term Plan

### Year Group: 1 Problem Solving

#### End of year expectations:

#### **Problem Solving**

- Use mathematics as an integral part of classroom activities, e.g. engage with mathematical activities involving sorting, counting and measuring by direct comparison, begin to understand the relevance of mathematical ideas to everyday situations by using them in role play
- Select the mathematics they use in some classroom activities, e.g. find a starting point or identify key information
- Begin to use heuristics (apparatus, diagrams, role play etc) to represent and clarify a problem
- Move between different representations of a problem, e.g. words diagrams
- Adopt a suggested model or systematic approach to a problem
- Make connections and apply their knowledge to similar situations
- Begin to apply knowledge appropriately to problem-solving

#### **Reasoning and Dialogue**

- Represent their work using objects or pictures
- Begin to discuss their work
- Begin to use some mathematical language when discussing their work
- Begin to use their work using symbols and simple diagrams
- Draw simple conclusions from their work
- Explain why an answer is correct
- Predict what comes next in a simple sequence and explain why