

Purbrook Infant School

Problem Solving Medium Term Plan

Year Group: 2 Problem Solving

End of year expectations:

Problem Solving

- Try different approaches and find ways of overcoming difficulties that arise when solving problems.
- Begin to organize their work and check results
- Select the mathematics they use in a wider range of classroom activities
- 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

- Review their work and reasoning
- Understand a general statement by finding particular examples that match it
- Use and interpret mathematical symbols and diagrams
- Discuss their mathematical work and explain their thinking
- 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