

# Calculators : Maths : Year 6

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To use calculators to solve calculations including several operations.	Children will learn about the order of operations, then draw brackets around parts of calculations to show which parts are solved first. They may also explore ways in which placing brackets around other parts of a calculation can affect the total.	<ul style="list-style-type: none"> <li>Can children identify the order of operation when solving calculations?</li> <li>Can children draw brackets around the parts of a calculation which, in the standard order of operation, are calculated first?</li> <li>Can some children find higher/lower totals by drawing brackets around different parts of a calculation?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 1A/1B/1C</li> <li>Flashcards 1</li> <li>Answer sheets</li> <li>Squared paper</li> <li>Calculators</li> </ul>
Lesson 2	To use calculators to solve calculations with several different operations and numbers with up to two decimal places.	Children will build on their understanding of the order of operations, using calculators to solve long calculations including numbers with up to two decimal places.	<ul style="list-style-type: none"> <li>Can children identify the order of operation in long calculations?</li> <li>Can children use mental/written methods to solve <math>n.nn-n.nn</math> or <math>n.nn \times n</math> calculations?</li> <li>Can children identify reasons for, and advantages of, using a calculator for certain types of calculation?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 2A/2B/2C</li> <li>Squared paper</li> <li>Answer sheets</li> </ul> <p><b>FSD...? activity only:</b></p> <ul style="list-style-type: none"> <li>Challenge Card 2</li> <li>Game Board 2</li> <li>A variety of maths resources</li> </ul>
Lesson 3	To identify the correct order of operations for long calculations including powers, and use calculators to solve them.	Continuing to build on their understanding of the order of operations, children will use calculators to solve long calculations including square numbers and other powers. Some children may also find missing operations in long calculations.	<ul style="list-style-type: none"> <li>Can children identify the correct order of operation for long calculations?</li> <li>Can children solve long calculations including powers?</li> <li>Can children construct long calculations including at least two different operations?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 3A/3B/3C/3D</li> <li>Squared paper</li> <li>Calculators</li> <li>Answer sheets</li> </ul>
Lesson 4	To convert fractions to decimals, and use calculators to solve calculations including fractions.	Continuing to build on their understanding of the order of operations, children will use calculators to convert fractions to decimals, then solve long calculations including fractions.	<ul style="list-style-type: none"> <li>Can children choose and use appropriate written methods or solving calculations?</li> <li>Can children convert fractions to decimals using calculators?</li> <li>Can children solve calculations including all four operations, whole numbers and fractions?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 4A/4B/4C/4D</li> <li>Squared paper</li> <li>Calculators</li> <li>Answer sheets</li> </ul>
Lesson 5	To solve multi-step problems choosing appropriate methods, including using calculators.	Children will be reminded that they can choose appropriate methods (mental/written/calculator) as they demonstrate their understanding of the week's learning by solving long, tricky calculations - either provided, or generated by themselves.	<ul style="list-style-type: none"> <li>Can children decide on appropriate operations and methods when solving multi-step problems?</li> <li>Can children apply their knowledge of the order of operations when solving problems?</li> <li>Can children use calculators and mental/written methods, where appropriate, to solve and check their calculations?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Bungling Builders Cards 5</li> <li>Calculation Clues 5</li> <li>Squared paper</li> <li>Calculators</li> <li>Challenge Cards 5 (FSD...? activity only)</li> <li>A variety of measuring equipment, e.g. tape measures, trundle wheels, scales (FSD? only)</li> <li>Answer sheets</li> </ul>