

**Main Criteria:** Forward Education  
**Secondary Criteria:** National Curriculum for England  
**Subjects:** Mathematics, Science, Technology Education  
**Grades:** 5, 6, Key Stage 2

## Forward Education

### Smart Farming with Automated Watering

**National Curriculum for England**  
**Mathematics**  
 Grade **Key Stage 2** - Adopted: 2014

<b>PROGRAMME OF STUDY</b>	UK.MA.Y6.RP.	<b>Year 6 – RATIO AND PROPORTION</b>
<b>STRAND</b>		<b>Pupils should be taught to:</b>

STATUTORY REQUIREMENT	MA.Y6.RP.4.	Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
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**National Curriculum for England**  
**Science**  
 Grade **Key Stage 2** - Adopted: 2014

<b>PROGRAMME OF STUDY</b>	UK.SC.Y3-4.WS.	<b>YEARS 3-4 - Working scientifically</b>
<b>STRAND</b>		<b>During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:</b>

STATUTORY REQUIREMENT	SC.Y3-4.WS.1.	Asking relevant questions and using different types of scientific enquiries to answer them.
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STATUTORY REQUIREMENT	SC.Y3-4.WS.2.	Setting up simple practical enquiries, comparative and fair tests.
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STATUTORY REQUIREMENT	SC.Y3-4.WS.3.	Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.
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STATUTORY REQUIREMENT	SC.Y3-4.WS.4.	Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.
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STATUTORY REQUIREMENT	SC.Y3-4.WS.5.	Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.
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STATUTORY REQUIREMENT	SC.Y3-4.WS.9.	Using straightforward scientific evidence to answer questions or to support their findings.
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<b>PROGRAMME OF STUDY</b>	UK.SC.Y3	<b>YEAR 3 – SCIENCE</b>
<b>STRAND</b>	SC.Y3.1.	<b>Plants</b>
<b>STATUTORY REQUIREMENT</b>		<b>Pupils should be taught to:</b>

STATUTORY REQUIREMENT	SC.Y3.1.2	Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.
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<b>PROGRAMME OF STUDY</b>	<b>UK.SC.Y5-6.WS.</b>	<b>YEARS 5-6 - Working scientifically</b>
<b>STRAND</b>		<b>During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:</b>

STATUTORY REQUIREMENT	SC.Y5-6.WS.2.	Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
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STATUTORY REQUIREMENT	SC.Y5-6.WS.3.	Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
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**National Curriculum for England  
Technology Education  
Grade Key Stage 2 - Adopted: 2014**

<b>PROGRAMME OF STUDY</b>	<b>UK.CO.</b>	<b>Computing</b>
<b>STRAND</b>		<b>Pupils should be taught to:</b>

STATUTORY REQUIREMENT	CO.1.	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.
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STATUTORY REQUIREMENT	CO.3.	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.
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