

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

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

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

PROGRAMME OF STUDY	UK.SC.Y3-4.WS.	YEARS 3-4 - Working scientifically
STRAND		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:

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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PROGRAMME OF STUDY	UK.SC.Y3	YEAR 3 – SCIENCE
STRAND	SC.Y3.1.	Plants
STATUTORY REQUIREMENT		Pupils should be taught to:

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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PROGRAMME OF STUDY	UK.SC.Y5-6.WS.	YEARS 5-6 - Working scientifically
STRAND		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:

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.
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.

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

PROGRAMME OF STUDY	UK.CO.	Computing
STRAND		Pupils should be taught to:

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.
STATUTORY REQUIREMENT	CO.3.	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.