Main Criteria: Forward Education

Secondary Criteria: National Curriculum for England
Subjects: Mathematics, Science, Technology Education
Grades: 5, 6, 7, 8, Key Stage 2, Key Stage 3

Forward Education

Solar Water Disinfection (SODIS)

National Curriculum for England Mathematics

Grade Key Stage 2 - Adopted: 2014

PROGRAMME OF STUDY	UK.MA.Y5 .M.	Year 5 – MEASUREMENT
STRAND		Pupils should be taught to:
STATUTORY REQUIREMENT	MA.Y5.M .5.	Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water].
PROGRAMME OF STUDY	UK.MA.Y6 .M.	Year 6 – MEASUREMENT
STRAND		Pupils should be taught to:
STATUTORY REQUIREMENT	MA.Y6.M .7.	Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3].

National Curriculum for England Mathematics

Grade Key Stage 3 - Adopted: 2014

	UK.MA.Y7 -9.1.	Year 7-9 – Working mathematically
STRAND		Through the mathematics content, pupils should be taught to:
STATUTORY REQUIREMEN T	MA.Y7- 9.1.1.	Develop fluency

STATUTORY MA.Y7- Select and use appropriate calculation strategies to solve increasingly complex problems. REQUIREMENT 9.1.1.2.

PROGRAMME OF STUDY	UK.MA.Y7 -9.1.	Year 7-9 – Working mathematically
STRAND		Through the mathematics content, pupils should be taught to:
STATUTORY REQUIREMEN T	MA.Y7- 9.1.2.	Reason mathematically

STATUTORY MA.Y7- Begin to reason deductively in geometry, number and algebra, including using geometrical constructions. REQUIREMENT 9.1.2.5.

	UK.MA.Y7 -9.1.	Year 7-9 – Working mathematically
STRAND		Through the mathematics content, pupils should be taught to:
STATUTORY REQUIREMEN T	MA.Y7- 9.1.3.	Solve problems

STATUTORY REQUIREMENT	MA.Y7- 9.1.3.1.	Develop their mathematical knowledge, in part through solving problems and evaluating the outcomes, including multi-step problems.
STATUTORY REQUIREMENT	MA.Y7- 9.1.3.2.	Develop their use of formal mathematical knowledge to interpret and solve problems, including in financial mathematics.
STATUTORY REQUIREMENT	MA.Y7- 9.1.3.3.	Begin to model situations mathematically and express the results using a range of formal mathematical representations.
PROGRAMME OF STUDY	UK.MA.Y7 -9.5.	Geometry and measures
		Geometry and measures Pupils should be taught to:
OF STUDY		

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.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.
STATUTORY REQUIREMENT	SC.Y3- 4.WS.9.	Using straightforward scientific evidence to answer questions or to support their findings.
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	SC.Y5-	Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat

National Curriculum for England Science

REQUIREMENT 6.WS.2. readings when appropriate.

Grade Key Stage 3 - Adopted: 2014

PROGRAMME OF STUDY	UK.SC.Y7 -9.WS.	YEARS 7-9 - Working scientifically
STRAND	SC.Y7- 9.WS.3.	Analysis and evaluation
STATUTORY REQUIREMEN T		Through the content across all three disciplines, pupils should be taught to:

STATUTORY REQUIREMENT 9.WS.3.4.

SC.Y7-

Present reasoned explanations, including explaining data in relation to predictions and hypotheses.

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.

National Curriculum for England Technology Education

Grade Key Stage 3 - Adopted: 2014

PROGRAMME OF STUDY	ик.со.	Computing
STRAND		Pupils should be taught to:
STATUTORY REQUIREMENT	CO.2.	Understand several key algorithms that reflect computational thinking [for example, ones for sorting and searching]; use logical reasoning to compare the utility of alternative algorithms for the same problem.
STATUTORY REQUIREMENT	CO.3.	Use two or more programming languages, at least one of which is textual, to solve a variety of computational problems; make appropriate use of data structures [for example, lists, tables or arrays]; design and develop modular programs that use procedures or functions.