

Main Criteria: Forward Education
Secondary Criteria: Curriculum for Wales
Subjects: Mathematics, Science, Technology Education
Grades: 7, 8, Key Stage 3

Forward Education

Smart Farming with Hydroponics & LED Grow Lights

Curriculum for Wales
Science
 Grade **Key Stage 3** - Adopted: 2008

Document		Key Stage 3 Programme of Study
Strand		Skills
Standard		Communication - Pupils should be given opportunities to:

Standard 2 communicate logically by speech, writing, drawings, diagrams, charts, tables, bar charts, line graphs, videos and ICT packages using a wide range of scientific vocabulary, terms, symbols and conventions

Document		Key Stage 3 Programme of Study
Strand		Skills
Standard		Enquiry - Pupils should be given opportunities to carry out different types of enquiry, e.g. pattern-seeking, exploring, classifying and identifying, making things, fair testing, using and applying models, by:
Standard		Developing - Pupils follow the planned approach/method, revise it where necessary, and where appropriate:

Standard 4 use scientific prior knowledge to explain links between cause and effect when concluding

Document		Key Stage 3 Programme of Study
Strand		Skills
Standard		Enquiry - Pupils should be given opportunities to carry out different types of enquiry, e.g. pattern-seeking, exploring, classifying and identifying, making things, fair testing, using and applying models, by:
Standard		Reflecting - Pupils think about what they have done in order to consolidate their learning and transfer skills, knowledge and understanding to another context by:

Standard 3 identifying the learning/thinking strategies they have used

Standard 4 linking the learning to dissimilar but familiar situations, within and outside school.

Document		Key Stage 3 Programme of Study
Strand		Range
Standard		Interdependence of organisms - Pupils should use and develop their skills, knowledge and understanding by investigating how animals and plants are independent yet rely on each other for survival. They should be given opportunities to study:

Standard 6 the environmental factors that affect what grows and lives in those two environments, e.g. sunlight, water availability, temperature