

Main Criteria: Forward Education
Secondary Criteria: Northern Ireland - Mathematics, Northern Ireland - Science and Technology
Subjects: Mathematics, Science, Technology Education
Grades: 5, 6, Key Stage 2

Forward Education

Smart Farming with Automated Watering

Northern Ireland - Mathematics
Mathematics
Grade **Key Stage 2** - Adopted: **2012**

AREA OF LEARNING	NIR.1.	Mathematics and Numeracy
STRAND	1.1.	Processes in Mathematics
SUBSTRAND / ESSENTIAL KNOWLEDGE	1.1.1.	Making and Monitoring Decisions
STANDARD		Pupils should be enabled to:

INDICATOR	1.1.1.1.	Take increasing responsibility for selecting and using the materials and the mathematics required for their work.
INDICATOR	1.1.1.3.	Plan and organise their work, learning to work systematically.
INDICATOR	1.1.1.4.	Develop a range of strategies for problem solving, looking for ways to overcome difficulties.

AREA OF LEARNING	NIR.1.	Mathematics and Numeracy
STRAND	1.1.	Processes in Mathematics
SUBSTRAND / ESSENTIAL KNOWLEDGE	1.1.3.	Mathematical Reasoning
STANDARD		Pupils should be enabled to:

INDICATOR	1.1.3.1.	Recognise general patterns and relationships and make predictions about them.
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AREA OF LEARNING	NIR.1.	Mathematics and Numeracy
STRAND	1.5.	Handling Data
SUBSTRAND / ESSENTIAL KNOWLEDGE	1.5.1.	Collecting, Representing and Interpreting Data
STANDARD		Pupils should be enabled to:

INDICATOR	1.5.1.3.	Interpret a wide range of tables, lists, graphs and diagrams; create and interpret frequency tables, including those for grouped data.
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Northern Ireland - Science and Technology
Science
Grade **Key Stage 2** - Adopted: **2007**

Course/Subject		THE WORLD AROUND US
Objective		Interdependence

Statutory Requirement		Pupils should be enabled to explore:
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Interdependence of people and the environment and how this has been accelerated over time by advances in transport and communications;

The effect of people on the natural and built environment over time.

Course/Subject		THE WORLD AROUND US
Objective		Place
Statutory Requirement		Pupils should be enabled to explore:

Positive and negative effects of natural and human events upon place over time.

Course/Subject		THE WORLD AROUND US
Objective		Change over Time
Statutory Requirement		Pupils should be enabled to explore:

The effects of positive and negative changes globally and how we contribute to some of these changes.