

Main Criteria: Forward Education**Secondary Criteria:** Scotland Mathematics Curriculum for Excellence - Experiences & Outcomes, Scotland Sciences Curriculum for Excellence - Experiences & Outcomes, Scotland Technologies Curriculum for Excellence - Experiences & Outcomes**Subjects:** Mathematics, Science, Technology Education**Grades:** 5, 6, Key Stage 2**Forward Education****Smart Farming with Automated Watering****Scotland Sciences Curriculum for Excellence - Experiences & Outcomes****Science**

Grade 5 - Adopted: 2017

LEVEL / STRAND	SCT.PE.	Second Level - Planet Earth
EXPERIENCES	PE.1.	Biodiversity and interdependence
OUTCOMES	PE.1.2.	I can use my knowledge of the interactions and energy flow between plants and animals in ecosystems, food chains and webs. I have contributed to the design or conservation of a wildlife area. SCN 2-02a
OUTCOMES	PE.1.3.	Through carrying out practical activities and investigations, I can show how plants have benefited society. SCN 2-02b
OUTCOMES	PE.1.4.	I have collaborated in the design of an investigation into the effects of fertilisers on the growth of plants. I can express an informed view of the risks and benefits of their use. SCN 2-03a

LEVEL / STRAND	SCT.TS.	Second Level – Topical Science
EXPERIENCES	TS.1.	Topical Science
OUTCOMES	TS.1.1.	Through research and discussion, I have an appreciation of the contribution that individuals are making to scientific discovery and invention and the impact this has made on society. SCN 2-20a

Scotland Sciences Curriculum for Excellence - Experiences & Outcomes**Science**

Grade 6 - Adopted: 2017

LEVEL / STRAND	SCT.PE.	Second Level - Planet Earth
EXPERIENCES	PE.1.	Biodiversity and interdependence
OUTCOMES	PE.1.2.	I can use my knowledge of the interactions and energy flow between plants and animals in ecosystems, food chains and webs. I have contributed to the design or conservation of a wildlife area. SCN 2-02a
OUTCOMES	PE.1.3.	Through carrying out practical activities and investigations, I can show how plants have benefited society. SCN 2-02b
OUTCOMES	PE.1.4.	I have collaborated in the design of an investigation into the effects of fertilisers on the growth of plants. I can express an informed view of the risks and benefits of their use. SCN 2-03a

LEVEL / STRAND	SCT.TS.	Second Level – Topical Science
EXPERIENCES	TS.1.	Topical Science
OUTCOMES	TS.1.1.	Through research and discussion, I have an appreciation of the contribution that individuals are making to scientific discovery and invention and the impact this has made on society. SCN 2-20a

Scotland Technologies Curriculum for Excellence - Experiences & Outcomes

Technology Education

Grade 5 - Adopted: 2009

LEVEL / STRAND	SCT.CDE G.	Second Level - Craft, design, engineering and graphics contexts for developing technological skills and knowledge
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EXPERIENCES AND OUTCOMES CDEG.3. Through discovery and imagination, I can develop and use problem-solving strategies to construct models. TCH 1-14a / TCH 2-14a

Scotland Technologies Curriculum for Excellence - Experiences & Outcomes

Technology Education

Grade 6 - Adopted: 2009

LEVEL / STRAND	SCT.CDE G.	Second Level - Craft, design, engineering and graphics contexts for developing technological skills and knowledge
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EXPERIENCES AND OUTCOMES CDEG.3. Through discovery and imagination, I can develop and use problem-solving strategies to construct models. TCH 1-14a / TCH 2-14a