

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

How Wind Turbines Capture Kinetic Energy

Scotland Mathematics Curriculum for Excellence - Experiences & Outcomes

Mathematics

Grade 5 - Adopted: 2017

LEVEL / STRAND	SCT.NM.M.	Second Level - Number, money and measure
EXPERIENCES	NMM.5.	Fractions, decimal fractions and percentages

OUTCOMES NMM.5.2. I can show the equivalent forms of simple fractions, decimal fractions and percentages, and can choose my preferred form when solving a problem, explaining my choice of method. MNU 2-07b

LEVEL / STRAND	SCT.IH.	Second Level - Information handling
EXPERIENCES	IH.1.	Data and analysis

OUTCOMES IH.1.2. I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way. MNU 2-20b

Scotland Mathematics Curriculum for Excellence - Experiences & Outcomes

Mathematics

Grade 6 - Adopted: 2017

LEVEL / STRAND	SCT.NM.M.	Second Level - Number, money and measure
EXPERIENCES	NMM.5.	Fractions, decimal fractions and percentages

OUTCOMES NMM.5.2. I can show the equivalent forms of simple fractions, decimal fractions and percentages, and can choose my preferred form when solving a problem, explaining my choice of method. MNU 2-07b

LEVEL / STRAND	SCT.IH.	Second Level - Information handling
EXPERIENCES	IH.1.	Data and analysis

OUTCOMES IH.1.2. I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way. MNU 2-20b

Scotland Sciences Curriculum for Excellence - Experiences & Outcomes

Science

Grade 5 - Adopted: 2017

LEVEL / STRAND	SCT.PE.	Second Level - Planet Earth
EXPERIENCES	PE.2.	Energy sources and sustainability

OUTCOMES PE.2.1. By considering examples where energy is conserved, I can identify the energy source, how it is transferred and ways of reducing wasted energy. SCN 2-04a

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.2.	Energy sources and sustainability

OUTCOMES PE.2.1. By considering examples where energy is conserved, I can identify the energy source, how it is transferred and ways of reducing wasted energy. SCN 2-04a

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.TDS	Second Level - Technological developments in society
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EXPERIENCES AND OUTCOMES TDS.4. I can investigate the use and development of renewable and sustainable energy to gain an awareness of their growing importance in Scotland or beyond. TCH 2-02b

LEVEL / STRAND	SCT.CDEG.	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

EXPERIENCES AND OUTCOMES CDEG.4. Having evaluated my work, I can adapt and improve, where appropriate, through trial and error or by using feedback. TCH 1-14b / TCH 2-14b

**Scotland Technologies Curriculum for Excellence - Experiences & Outcomes
Technology Education**

Grade 6 - Adopted: 2009

LEVEL / STRAND	SCT.TDS	Second Level - Technological developments in society
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EXPERIENCES AND OUTCOMES	TDS.4.	I can investigate the use and development of renewable and sustainable energy to gain an awareness of their growing importance in Scotland or beyond. TCH 2-02b
LEVEL / STRAND	SCT.CDE G.	Second Level - Craft, design, engineering and graphics contexts for developing technological skills and knowledge
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
EXPERIENCES AND OUTCOMES	CDEG.4.	Having evaluated my work, I can adapt and improve, where appropriate, through trial and error or by using feedback. TCH 1-14b / TCH 2-14b