

**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:** 3, 4, Key Stage 1, Key Stage 2

## Forward Education

### Powering the Future with Wind Energy

#### Scotland Mathematics Curriculum for Excellence - Experiences & Outcomes

##### Mathematics

Grade 3 - Adopted: 2017

<b>LEVEL / STRAND</b>	<b>SCT.IH.</b>	<b>First Level - Information handling</b>
<b>EXPERIENCES</b>	<b>IH.1.</b>	<b>Data and analysis</b>

**OUTCOMES** IH.1.2. I have used a range of ways to collect information and can sort it in a logical, organised and imaginative way using my own and others' criteria. MNU 1-20b

#### Scotland Mathematics Curriculum for Excellence - Experiences & Outcomes

##### Mathematics

Grade 4 - Adopted: 2017

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

**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

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

**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 4 - Adopted: 2017

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

**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

<b>LEVEL / STRAND</b>	<b>SCT.TS.</b>	<b>Second Level – Topical Science</b>
<b>EXPERIENCES</b>	<b>TS.1.</b>	<b>Topical Science</b>

**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 3 - Adopted: 2009

<b>LEVEL / STRAND</b>	<b>SCT.CDE G.</b>	<b>First Level - Craft, design, engineering and graphics contexts for developing technological skills and knowledge</b>
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EXPERIENCES AND OUTCOMES      TCH.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 4 - Adopted: 2009

<b>LEVEL / STRAND</b>	<b>SCT.TDS</b>	<b>Second Level - Technological developments in society</b>
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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

<b>LEVEL / STRAND</b>	<b>SCT.CDE G.</b>	<b>Second Level - Craft, design, engineering and graphics contexts for developing technological skills and knowledge</b>
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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