

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:** 7, 8, Key Stage 3**Forward Education****Wildfire detection with Autonomous Vehicles****Scotland Mathematics Curriculum for Excellence - Experiences & Outcomes****Mathematics**

Grade 7 - Adopted: 2017

LEVEL / STRAND	SCT.NM.M.	Fourth Level - Number, money and measure
EXPERIENCES	NMM.10.	Patterns and relationships

OUTCOMES NMM.10.4. I can use a given formula to generate points lying on a straight line, plot them to create a graphical representation then use this to answer related questions. MTH 4-13d

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

Grade 8 - Adopted: 2017

LEVEL / STRAND	SCT.NM.M.	Fourth Level - Number, money and measure
EXPERIENCES	NMM.10.	Patterns and relationships

OUTCOMES NMM.10.4. I can use a given formula to generate points lying on a straight line, plot them to create a graphical representation then use this to answer related questions. MTH 4-13d

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

Grade 7 - Adopted: 2017

LEVEL / STRAND	SCT.PE.	Third Level – Planet Earth
EXPERIENCES	PE.2.	Energy sources and sustainability

OUTCOMES PE.2.1. I can use my knowledge of the different ways in which heat is transferred between hot and cold objects and the thermal conductivity of materials to improve energy efficiency in buildings or other systems. SCN 3-04a

LEVEL / STRAND	SCT.PE.	Third Level – Planet Earth
EXPERIENCES	PE.3.	Processes of the planet

OUTCOMES PE.3.2. I can explain some of the processes which contribute to climate change and discuss the possible impact of atmospheric change on the survival of living things. SCN 3-05b

LEVEL / STRAND	SCT.PE.	Fourth Level – Planet Earth
EXPERIENCES	PE.1.	Biodiversity and interdependence

OUTCOMES PE.1.1. I understand how animal and plant species depend on each other and how living things are adapted for survival. I can predict the impact of population growth and natural hazards on biodiversity. SCN 4-01a

LEVEL / STRAND	SCT .PE.	Fourth Level – Planet Earth
EXPERIENCES	PE.3.	Processes of the planet
OUTCOMES	PE.3.1.	I have developed my understanding of the kinetic model of a gas. I can describe the qualitative relationships between pressure, volume and temperature of gases. SCN 4-05a
OUTCOMES	PE.3.2.	Through exploring the carbon cycle, I can describe the processes involved in maintaining the balance of gases in the air, considering causes and implications of changes in the balance. SCN 4-05b

Scotland Sciences Curriculum for Excellence - Experiences & Outcomes

Science

Grade 8 - Adopted: 2017

LEVEL / STRAND	SCT .PE.	Third Level – Planet Earth
EXPERIENCES	PE.2.	Energy sources and sustainability

OUTCOMES PE.2.1. I can use my knowledge of the different ways in which heat is transferred between hot and cold objects and the thermal conductivity of materials to improve energy efficiency in buildings or other systems. SCN 3-04a

LEVEL / STRAND	SCT .PE.	Third Level – Planet Earth
EXPERIENCES	PE.3.	Processes of the planet

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LEVEL / STRAND	SCT .PE.	Fourth Level – Planet Earth
EXPERIENCES	PE.3.	Processes of the planet

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OUTCOMES PE.3.2. Through exploring the carbon cycle, I can describe the processes involved in maintaining the balance of gases in the air, considering causes and implications of changes in the balance. SCN 4-05b

Scotland Technologies Curriculum for Excellence - Experiences & Outcomes

Technology Education

Grade 7 - Adopted: 2009

LEVEL / STRAND	SCT.FTC	Fourth Level - Food and textiles contexts for developing technological skills and knowledge
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EXPERIENCES AND OUTCOMES	FTC.4.	I can apply skills of critical thinking when evaluating the quality and effectiveness of my own or others" products. TCH 4-11b
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Scotland Technologies Curriculum for Excellence - Experiences & Outcomes

Technology Education

Grade 8 - Adopted: 2009

LEVEL / STRAND	SCT.FTC	Fourth Level - Food and textiles contexts for developing technological skills and knowledge
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EXPERIENCES AND OUTCOMES	FTC.4.	I can apply skills of critical thinking when evaluating the quality and effectiveness of my own or others" products. TCH 4-11b
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