



Curriculum Links: KS3, 11 - 14



Key Stage 3 Curriculum Links

Generation Green supports Science and Geography, with an emphasis on Active Citizenship and personal responsibility. The links below show how each lesson links into your curriculum. Where specifications are changing, links to both current and revised specifications are included.

Taking part also develops a number of important life skills for students, and for your school, and can enhance your work towards becoming more sustainable. Below the links you can find further information on how Generation Green can support Personal, Learning and Thinking Skills (England) the Four Capacities (Scotland), your work towards the National Framework for Sustainable Schools, and accreditation through Eco-Schools.

Developing Personal, Learning and Thinking Skills

The new National Curriculum for Key Stage 3 provides a framework of six groups of skills that are essential to success in life, learning and work. These Personal Learning and Thinking Skills (PLTS) can be developed through a range of activities and will enable your students to enter work and adult life as confident and capable individuals.

Your participation in Generation Green provides a wealth of opportunities for students to develop their PLTS. The table below outlines some of the main PLTS outcomes that you can support. These opportunities will depend upon the individual needs and abilities of your class, the lessons you teach and how you approach each activity.

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|-----------------------|---|
| Independent enquirers | <ul style="list-style-type: none">• Plan and carry out research, appreciating the consequences of decisions• Explore issues from different perspectives• Analyse and evaluate information• Consider the influence of circumstances, beliefs and feelings on decisions |
| Creative thinkers | <ul style="list-style-type: none">• Generate ideas and explore possibilities• Ask questions to extend their thinking• Question their own and others' assumptions• Follow ideas through |
| Reflective learners | <ul style="list-style-type: none">• Assess themselves and identify opportunities• Set goals with success criteria• Review progress, acting on the outcomes• Invite feedback and deal positively with setbacks and criticism• Communicate their learning in different ways |
| Team workers | <ul style="list-style-type: none">• Collaborate with others to work towards common goals• Adapt behaviour to suit different roles, including leadership |



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| | <ul style="list-style-type: none"> • Take responsibility • Provide constructive support and feedback to others |
| Self-managers | <ul style="list-style-type: none"> • Seek out challenges or new responsibilities • Work towards goals, showing initiative and perseverance • Organise time and resources |
| Effective participators | <ul style="list-style-type: none"> • Discuss issues of concern • Present a persuasive case for action • Propose practical ways forward • Try to influence others |

For more detailed information visit

<http://curriculum.qca.org.uk/key-stages-3-and-4/skills/plts/index.aspx>

Developing the Four Capacities (Scotland)

The aim of the 3-18 Curriculum for Excellence is to help all children and young people to become successful learners, confident individuals, responsible citizens and effective contributors to society and at work.

Your participation in Generation Green provides a wealth of opportunities for students to develop the Four Capacities that underpin this. The table below outlines some of the main Four Capacities outcomes that you can support. These opportunities will depend upon the individual needs and abilities of your class, the lessons you teach and how you approach each activity.

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|------------------------|---|
| Successful learners | <ul style="list-style-type: none"> • Use technology for learning • Think creatively and independently • Make reasoned evaluations |
| Confident individuals | <ul style="list-style-type: none"> • Assess risk and make informed decisions • Achieve success in different areas of activity |
| Responsible citizens | <ul style="list-style-type: none"> • Make informed choices and decisions • Evaluate environmental issues • Develop informed, ethical views of complex issues |
| Effective contributors | <ul style="list-style-type: none"> • Work in partnership and in teams • Communicate in different ways • Take the initiative and lead • Solve problems |

Find out more at

<http://www.ltscotland.org.uk/curriculumforexcellence/whatisfce/purposes.asp>



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Supporting the National Framework for Sustainable Schools

The government would like all schools to be sustainable by 2020. To help you on your journey, the National Framework for Sustainable Schools introduces eight 'doorways' through which your school can explore sustainability and take practical action to reduce your impact on the Earth. The 'doorways' can be explored in their own right, while also being interconnected. They support a whole-school approach that integrates sustainable thinking and action into the whole life of the school, its buildings and grounds, and your local community.

Generation Green can support your work to become a more sustainable school. In particular, it can help you to explore the following 'doorways':

- Energy and water
- Travel and traffic
- Buildings and grounds
- Inclusion and participation
- Local well-being
- Global dimension

To explore each doorway in detail, visit

<http://www.teachernet.gov.uk/sustainableschools/framework/>

Supporting Eco-Schools

Generation green can complement your participation in Eco-Schools.

Eco-Schools is an international award programme that helps schools to embed sustainable principles into the heart of school life.

Eco-schools is free. Once registered, schools follow a simple seven-step process to address a variety of environmental themes. Just like Generation Green, your pupils take the lead to assess the environmental performance of your school, decide what they want to address and how they are going to do it.

Schools work towards gaining one of three awards - Bronze, Silver or Green.

Find out more at www.eco-schools.org.uk



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| Lesson 1 – Global Warming Fears | |
| <p>England KS3</p> <p>Science: Sc2: 3a, 3c, 5b, Sc3: 2i Geography: 1e, 4b, 5b, 6j, k Citizenship: 2a, 2c</p> | <p><i>New KS3 from Sep 08</i></p> <p>Science: 3.4c, 4k Geography: 1.4b, 1.5a, 1.6a-b, 3h, 4b, 4g, 4h PSHE: 4d Citizenship: 4a, 4j</p> |
| <p>Scotland S1 - S3</p> <p><i>5-14 Guidelines</i></p> <p>Environmental studies - level A -F People and places: The physical environment People in the past: Changes and continuity, cause and effect</p> | <p><i>3-18 Curriculum for excellence</i></p> <p>Science: Planet Earth: sustainability Planet Earth: Climate and Earth Science Energy and the Environment: energy sources Topical Science</p> <p>Social Studies: people, place and environment</p> |
| <p>Wales KS3</p> <p>Science: Life processes 3.2, 3.2 Materials and their properties 2.12 Physical processes 5.1, 5.4 Geography: 1.3, 3.8 - 3.10 PSE: Environmental aspect</p> <p><i>New KS3 from Sep 08</i></p> <p>Science: Skills - Developing 4 Range - Independence of organisms 6</p> | <p>Geography: Skills - Understanding places, environment and processes 2; Communicating 1 Range - Threatened environment, Tomorrow's citizen, Geography in the news, How environment and people interact, How and why the environment changes</p> <p>PSE: Skills - Developing thinking, Developing communication, Working with others Range - Sustainable development and global citizenship</p> |



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| Lesson 2 - Forms of Energy | |
| England KS3 | <i>New KS3 from Sep 08</i> |
| Science Sc4: 5a, 5b, 5c Geography: 7d Citizenship: 2a, 2b | Science: 3.1a, 3.4c, 4g Geography: 6a-b Citizenship: 4a, 4j |
| Scotland S1 - S3 | |
| <i>5-14 Guidelines</i> | <i>3-18 Curriculum for excellence</i> |
| Environmental studies - level A -F Energy and forces: Conversion and transfer of energy People and places: The physical environment People in the past: Changes and continuity, cause and effect | Science: Planet Earth: sustainability Energy and the Environment: energy sources Topical Science |
| Wales KS3 | |
| Science: Physical processes: 5.2, 5.6-9 Geography: 3.9, 3.10 PSE: Environmental aspect | Geography: Range - How do environments and people interact? How can changes be sustainable? |
| <i>New KS3 from Sep 08</i> | PSE: Skills - Developing thinking, Developing communication, Working with others |
| Science: Range - Independence of Organisms 6, How things work 3 | |



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| Lesson 3 - Renewable and Non-renewable Energy | |
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| <p>England KS3</p> <p>Science: Sc4: 5a, 5c, 5e, 5f Geography: 6k, 7d</p> | <p><i>New KS3 from Sep 08</i></p> <p>Science: 3.4c, 4g Geography: 1.6a-b</p> |
| <p>Scotland S1 - S3</p> <p><i>5-14 Guidelines</i></p> <p>Environmental studies - level A -F Technological capacity: Resources and how they are managed People and places: The physical environment People in the past: Changes and continuity, cause and effect</p> <p>5.8 Developing informed attitudes: Social and environmental responsibility (cross level) 5.12 Science: Energy and forces (cross level)</p> <p>Skills in social subjects: Preparing for a task</p> | |
| <p>Wales KS3</p> <p>Science: Physical processes: 5.1, 5.3, 5.4, 5.8</p> <p>Geography: 3.9, 3.10 PSE: Environmental aspect</p> <p><i>New KS3 from Sep 08</i></p> <p>Science: Range - Independence of Organisms 6</p> | |
| <p>Geography: Range -Threatened environment, Tomorrow's citizen, How environments and people interact, How and why environments change</p> <p>PSE: Skills - Developing thinking, Developing communication, Working with others Range - Sustainable development and global citizenship</p> | |



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Lesson 4 - Exploring Sources of Energy (Part 1)

Depending on how you deliver this lesson, there will also be cross-curricular opportunities to include writing and speaking skills.

England KS3

Science: Sc3: 2i, Sc4: 5a, 5c
 Geography: 4b, 5a, 5b, 6j
 Citizenship: 3c
 PSHE: 4f

New KS3 from Sep 08:

Science: 2.1c, 2.3a, 3.4c, 4g, 4k
 Geography: 1.6 a-b, 3h, 4 h-j
 PSHE: 4e
 Citizenship: 2.1b, 2.3b, 4c

Scotland (S1 - S3)

5-14 Guidelines

Environmental studies - level A-F
 5.8 Developing informed attitudes: Social and environmental responsibility (cross level)
 5.12 Science: Energy and forces (cross level)

Skills in social subjects: Preparing for a task
 Skills in social subjects: Carrying out a task

3-18 Curriculum for excellence

Science:
 Planet Earth: sustainability
 Energy and the Environment: energy sources
 Topical Science

Social Studies: people, place and environment

Wales KS3

Science:
 Scientific enquiry: 2.2, 2.4, 3.1-3
 Materials and their properties: 2.11-12

Physical processes: 5.1, 5.3-4, 5.8
 Geography: 3.9, 3.10
 PSE: Environmental aspect

New KS3 from Sep 08

Science:
 Skills - Planning 1, 3
 Range - Independence of organisms 6, The sustainable Earth

Geography:
 Skills - Investigation 1
 Understanding places, environment and processes
 Range -Threatened environment, Tomorrow's citizen, How environments and people interact, How and why environments change

PSE:
 Skills - Developing thinking, Developing communication, Working with others
 Range - Sustainable development and global citizenship



Lesson 5 - Exploring Sources of Energy (Part 2)

Depending on how you deliver this lesson, there will also be cross-curricular opportunities to include writing and speaking skills.

England KS3

Science: Sc3: 2i, Sc4: 5a, 5c
 Geography: 2d,f, 4b, 5a, 5b, 6j
 Citizenship: 3c
 PSHE: 4f

New KS3 from Sep 08:

Science: 2.1c, 2.3a, 3.4c, 4g, 4k
 Geography: 1.6 a-b, 3h, 4 h-j
 PSHE: 4e
 Citizenship: 2.1b, 2.3b, 4c

Scotland (S1 - S3)

5-14 Guidelines

Environmental studies - level A-F
 5.8 Developing informed attitudes: Social and environmental responsibility (cross level)
 5.12 Science: Energy and forces (cross level)

Skills in social subjects: Preparing for a task
 Skills in social subjects: Carrying out a task

3-18 Curriculum for excellence

Science:
 Planet Earth: sustainability
 Energy and the Environment: energy sources
 Topical Science

Social Studies: people, place and environment

Wales KS3

Science:
 Scientific enquiry: 2.2, 2.4, 3.1-3
 Materials and their properties: 2.11-12
 Physical processes: 5.1, 5.3-4, 5.8

Geography: 3.9, 3.10

PSE: Environmental aspect

Geography:
 Skills - Investigation 1

Understanding places, environment and processes
 Range -Threatened environment, Tomorrow's citizen, How environments and people interact, How and why environments change

New KS3 from Sep 08

Science:
 Skills - Planning 1, 3
 Range - Independence of organisms 6, The sustainable Earth

PSE:
 Skills - Developing thinking, Developing communication, Working with others
 Range - Sustainable development and global citizenship



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Lesson 6- Exploring Sources of Energy (Part 3)

Depending on how you deliver this lesson, there will also be cross-curricular opportunities to include writing and speaking skills.

England KS3

Science: Sc3: 2i, Sc4: 5a, 5c
 Geography: 4b, 5a, 5b, 6j
 Citizenship: 3c
 PSHE: 4f

New KS3 from Sep 08:

Science: 2.1c, 2.3a, 3.4c, 4g, 4k
 Geography: 1.6 a-b, 3h, 4 h-j
 PSHE: 4e
 Citizenship: 2.1b, 2.3b, 4c

Scotland (S1 - S3)

5-14 Guidelines

Environmental studies - level A-F
 5.8 Developing informed attitudes: Social and environmental responsibility (cross level)
 5.12 Science: Energy and forces (cross level)

Skills in social subjects: Preparing for a task
 Skills in social subjects: Carrying out a task

3-18 Curriculum for excellence

Science:
 Planet Earth: sustainability
 Energy and the Environment: energy sources
 Topical Science

Social Studies: people, place and environment

Wales KS3

Science:
 Scientific enquiry: 2.2, 2.4, 3.1-3
 Materials and their properties: 2.11-12
 Physical processes: 5.1, 5.3-4, 5.8

Geography: 3.9, 3.10

PSE: Environmental aspect

New KS3 from Sep 08

Science:
 Skills - Planning 1, 3
 Range - Independence of organisms 6, The sustainable Earth

Understanding places, environment and processes
 Range -Threatened environment, Tomorrow's citizen, How environments and people interact, How and why environments change

PSE:
 Skills - Developing thinking, Developing communication, Working with others
 Range - Sustainable development and global citizenship



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Lesson 7 - Energy Source Poster Presentation

Depending on how you deliver this lesson, there will also be cross-curricular opportunities to include writing and speaking skills.

England KS3

Science: Sc3: 2i, Sc4: 5a, 5c
 Geography: 4b, 5a, 5b, 6j
 Citizenship: 3c
 PSHE: 4f

New KS3 from Sep 08:

Science: 2.1c, 2.3a, 3.4c, 4g, 4k
 Geography: 1.6 a-b, 3h, 4 h-j
 PSHE: 4e
 Citizenship: 2.1b, 2.3b, 4c

Scotland (S1 - S3)

5-14 Guidelines

Environmental studies - level A-F
 5.8 Developing informed attitudes: Social and environmental responsibility (cross level)
 5.12 Science: Energy and forces (cross level)

Skills in social subjects: Preparing for a task
 Skills in social subjects: Carrying out a task

3-18 Curriculum for excellence

Science:
 Planet Earth: sustainability
 Energy and the Environment: energy sources
 Topical Science

Social Studies: people, place and environment

Wales KS3

Science:
 Scientific enquiry: 2.2, 2.4, 3.1-3
 Materials and their properties: 2.11-12
 Physical processes: 5.1, 5.3-4, 5.8

Geography: 3.9, 3.10
 PSE: Environmental aspect

New KS3 from Sep 08

Science:
 Skills - Planning 1, 3
 Range - Independence of organisms 6, The sustainable Earth

Geography:
 Skills - Investigation 1
 Understanding places, environment and processes
 Range -Threatened environment, Tomorrow's citizen, How environments and people interact, How and why environments change

PSE:
 Skills - Developing thinking, Developing communication, Working with others
 Range - Sustainable development and global citizenship



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| Lesson 8 - Greenhouse Gases | |
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| England KS3 | <i>New KS3 from Sep 08</i> |
| Science: Sc1: 1b, 2a 2c, Sc4: 5a, 5c, 5e, 5f Geography: 1b, 1f, 3d, 3e, 6f, 6k, 7d Citizenship: 2c, 2b PSHE: 4g | Science: 3.4b-c, 4b-c, 4g, 4k Geography: 1.1a, 1.3a-b, 1.4 a-b, 1.5a, 1.6 a-b 2.1 f-g, 3h, 4i, 4h Citizenship: 2.3b PSHE: 4e |
| Scotland S1 - S3 | |
| <i>5-14 Guidelines</i> | <i>3-18 Curriculum for excellence</i> |
| Environmental studies - level A-F 5.8 Developing informed attitudes: Social and environmental responsibility (cross level) 5.12 Science: Energy and forces (cross level) Skills in social subjects: Preparing for a task Skills in science: Preparing for a task | Science: Planet Earth: sustainability Planet Earth: Climate and Earth Science Energy and the Environment: energy sources Topical Science Social Studies: people, place and environment |
| Wales KS3 | |
| Science: Scientific enquiry: 3.1, 3.3, 3.6 Life processes and living things: 3. 1-4 Physical processes: 5.1, 5.3, 5.4 Geography: 1.10, 3.9, 3.10 <i>New KS3 from Sep 08</i> Science: Skills - Planning 2, 3 Range - Independence of Organisms 6, How Things Work 5 | Geography: Skills - Investigating 1, Understanding places, environments and processes 3 Range - People and the planet, Threatened environment, How environments and people interact?, How and why environments change?, How can my actions and those of other people make a difference, locally, nationally and globally? PSE: Skills - Developing thinking, Developing communication, Working with others Range - Sustainable development and global citizenship |



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| Lesson 9 - Energy Suppliers | |
| England KS3 | <i>New KS3 from Sep 08</i> |
| Science: Sc1: 2g, Sc4: 5a, 5c, 5e, 5f, 5g, Sc3; 2c Geography: 1f | Science: 2.1c, 3.1a, 3.4c, 4c, 4k Geography: 1.5a 1.6a, 1.6b, 3b, 3h, 4b-d |
| Scotland S1 - S3 | |
| <i>5-14 Guidelines</i> | <i>3-18 Curriculum for excellence</i> |
| Environmental studies - level A-F 5.8 Developing informed attitudes: Social and environmental responsibility (cross level) 5.12 Science: Energy and forces (cross level) | Science: Energy and the Environment: energy sources Social Studies: people, place and environment |
| Skills in social subjects: Preparing for a task Skills in science: Preparing for a task Skills in social subjects: Carrying out a task Skills in science: Carrying out a task | |
| Wales KS3 | |
| Science: Scientific enquiry: 3.3, 3.6, 3.10-13 Geography: 1.5, 1.10, 3.9, 3.10 PSE: Environmental aspect | Geography: Skills - Investigating 1, 2, 3 Range - Threatened environment, Tomorrow's citizen, How environments and people interact?, How can my actions and those of other people make a difference, locally, nationally and globally? |
| <i>New KS3 from Sep 08</i> | |
| Science: Skills - Communication 3, Enquiry, Planning Range - Independence of Organisms 6 | PSE: Skills - Developing thinking, Developing communication Working with others Range - Sustainable development and global citizenship |



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| Lesson 10 - Energy Waste and Habits Checks | |
| England KS3 | <i>New KS3 from Sep 08</i> |
| Science: Sc1: 2a, 2c, 2d, 2e, 2g, 2h Geography: 1b, 2b Citizenship: 3b PSHE: 3k, 4a, 4c | Science: 2.1c, 2.2a, 3.4c, 4c Geography: 1.6a-b, 4b, 4e-f, 4i Citizenship: 2.3 a-d PSHE: 4e |
| Scotland S1 - S3 | |
| <i>5-14 Guidelines</i> | <i>3-18 Curriculum for excellence</i> |
| Environmental studies - level A-F 5.8 Developing informed attitudes: Social and environmental responsibility (cross level) 5.12 Science: Energy and forces (cross level) | Science: Planet Earth: sustainability Energy and the Environment: energy sources Topical Science |
| Skills in social subjects: Preparing for a task Skills in science: Preparing for a task | Social Studies: people, place and environment |
| Wales KS3 | |
| Science: Scientific enquiry: 3.3, 3.6, 3.10-13 Geography: 1. 5, 1.10, 3.9, 3.10 PSE: Environmental aspect | Geography: Skills - Investigating 2, 3 Range - Tomorrow's citizen, How environment and people interact?, How can my actions and those of other people make a difference, locally, nationally and globally? |
| <i>New KS3 from Sep 08</i> | |
| Science: Skills - Communication 3, Enquiry, Planning 4, 5, 6, Development 2 Range - The Sustainable Earth | PSE: Skills - Developing thinking, Developing communication, Working with others, Active citizenship Range - Sustainable development and global citizenship |



Lesson 11 - Awareness Raising Campaign

Depending on how you deliver this lesson, there will also be cross-curricular opportunities to include writing and speaking skills and significant use of ICT.

England KS3

Science: Sc1: 2a, 2c, 2d, 2e, 2g, 2h, 2o, 2p
 Geography: 1b, 2b
 Citizenship: 3b
 PSHE: 3k, 4a, 4c

New KS3 from Sep 08

Science: 1.1b, 2.1c, 2.2a, 2.3a, 3.4c, 4b, 4c, 4k
 Geography: 1.4a-b, 1.5, 2.1a b, 2.1g, 2.4a, 3h, 4a-c, 4f, 4i
 Citizenship: 1.3d, 2.3 a-d, 4c, 4e, 4j
 PSHE: 2.3c, 3b, 4e,

Scotland S1 - S3

5-14 Guidelines

Environmental studies - level A-F
 5.8 Developing informed attitudes: Social and environmental responsibility (cross level)
 5.12 Science: Energy and forces (cross level)

Skills: Preparing for a task
 Skills: Carrying out a task
 Skills: Reviewing and reporting on tasks

3-18 Curriculum for excellence

Science:
 Planet Earth: sustainability
 Planet Earth: Climate and Earth Science
 Energy and the Environment: energy sources
 Topical Science

Social Studies: people, place and environment

Wales KS3

Science: Scientific enquiry: 3.3, 3.6, 3.10-13
 Physical processes: 5.4
 Geography: 1.5, 1.10, 3.9, 3.10
 PSE: Environmental aspect

New KS3 from Sep 08

Science:
 Skills - Communication 2, 3, Development 4
 Range - The Sustainable Earth

Geography:
 Skills - Investigating 2, 3
 Range - Tomorrow's citizen, How environments and people interact?, How can my actions and those of other people make a difference, locally, nationally and globally?
 PSE:
 Skills - Developing thinking, Developing communication, Working with others, Active citizenship
 Range - Sustainable development and global citizenship