

Secondary School Curriculum Resources – Sustainable Travel

Part A - School Travel

School Travel Plans and links with the curriculum (Sustrans)

http://www.sustrans.org.uk/assets/files/Safe%20Routes/resources/curriculum/SRS_English_Curriculum_KS3_and_4.pdf

Ditch the Car, A key Stage 3 Sustainable Travel Resource (Staffordshire CC)

Aimed primarily at KS3 Geography and PSHE. Series of activities designed to be used as whole module, a part module or to fit into other schemes of work. Covers congestion, pollution, environmental impacts, health, climate change, alternative transport, alternative fuels, physical changes, local study, teaching ideas.

Charged. Contact Road safety and Sustainable Travel unit, 01785 854035

roadsafety@staffordshire.gov.uk

Eco Vehicles Top Trumps

The Eco Vehicles Top Trumps game has been developed by climate change charity Marches Energy Agency and is a version of the card game Top Trumps. Out have gone Porsches and Ferraris and in have come hybrids and electric motors. Engine size and horsepower used to be superior, but they've been replaced as winning features by lowest CO₂ emissions and fuel efficiency. Eco Vehicles Top Trumps is a fun and entertaining way to educate youngsters about the new range of climate friendly options available for transport.

Kris McGowan, at Marches Energy Agency, on 07905 696821 or email

kris@mea.org.uk

<http://www.mea.org.uk/news/meas-eco-vehicles-top-trumps-provokes-car-rage-among-motoring-writers>

Democs Conversation Kit on sustainable travel (NEF/TFL)

To help prepare a travel plan providing a way to directly involve students in establishing issues and setting priorities for action.

Ray Hughes has spare packs. Ray.hughes@shropshire.gov.uk

KS3 Cycling Resources (TFL)

Detailed classroom resources for all key areas of the curriculum enabling a whole school themed approach.

NishaDurgacharan@tfl.gov.uk

International WTS Month Resource – Warwickshire

Contact Ray or Karen.hall@warwickshire.gov.uk

Green Flag – Global Education Derby

Green Flag for Development is a major Development Awareness Fund project funded by the Department for International Development (DfID) and Global Education Derby.

KS2:

Global school journey

Wheels go round the world

Travel and Transport Global Literacy

The Art of Travel and Road Safety

KS3

Wheels go around the world

Bio Fuels – Climate Saviour or Global Menace?

The Art of Travel and Road safety

Travel the World with Travel Smart

<http://www.green-flag.org.uk/Default.aspx>

‘Going Green’ – School Travel Project

KS3 Citizenship - 8 lessons including planning a survey, making policy recommendations and planning an awareness raising campaign.

<http://www.dft.gov.uk/think/teachers/lessonplans/secondary/citizenship/ks3>

Cycling

<http://www.dft.gov.uk/think/teachers/lessonplans/secondary/mfl/ks3?id=1370002>

Also 12 lessons around Road Safety and Planning a Safety Project

<http://www.dft.gov.uk/think/teachers/lessonplans/secondary/citizenship/ks4>

KS4 Road Rage and Green Transport

<http://www.dft.gov.uk/think/teachers/lessonplans/secondary/mfl/ksa?id=1730002>

All the below available for free download from the TES website www.tes.co.uk
(just need to register)

1. KS3 Sustainable Travel Curriculum Resource (Sustrans)

Demonstrates how School Travel Plans and sustainable travel to school can be used as a topic to deliver the National Curriculum (England) in secondary school. Shows where work on developing and monitoring a School Travel Plan can be undertaken in the classroom. Provides an overview of School Travel Plans - what it is, why you need one, how to write one, funding opportunities and OfSTED links. Key opportunities in specific curriculum areas and key stages, linked to programmes of study and/ or relevant QCA schemes of work with examples and key resources. Healthy Schools and ESD links.

2. Community & Society - Cycle Hero (TrueTube)

The World Needs A New Breed Of Hero. Are you up to the challenge? Comprises emotive images and music that makes cycling look extremely trendy. Strong promotional message. Short video clip.

Citizenship, PSHE, KS3 and 4.

3. Tracks Newsletter

Written for young people, by young people. Includes articles by pupils on what they are doing to get school transport issues going - sustainably. Also interviews, websites, key facts, resources, competitions and jargon-busters designed to help pupils not just to be aware of travel issues, but engage in them and let the decision-makers know what they think. For copies and to receive it free each term contact us on 0117 915 0100 or schools@sustrans.org.uk

Bicycle ride distance/time graph

Nice, simple activity for pupils to do.

KS4 Science, Physics

Letzdogreen - Future Travel Resource (Centro)

Future Travel is an online resource supporting the teaching of Key Stage 3 Geography, Science and Citizenship. The program introduces Network West Midlands and the environmental benefits of sustainable travel through video, photographs, statistics and text. The program enables students to investigate the issues faced by the transport system in the West Midlands, and the role of sustainable travel in reducing levels of congestion. Photographs of transport and local attractions are available for students to download and use in their own research projects. The program has been developed with teachers and students and can be used on interactive whiteboards, in ICT suites and on an individual computer.

http://www.letzgogreen.org/pdf/ks3/ks3_teachersnotes.pdf

The following are aimed at KS2 but might be useful/adaptable

Cycling into the Classroom with Bikeability (Bikeability)

Classroom resources, aimed at 9-11 year olds, were developed by Cycling England to bring the benefits of cycling to life in the classroom. The interactive, cross-curriculum classroom resources provide the opportunity for pupils to learn about the benefits of cycling for their health, the environment and the wider community. They contain colourful presentations to stimulate discussion and debate on the benefits of cycling, as well as fun interactive games and whole-class activities, supported by comprehensive lesson plans and teacher's notes. Also provided is an inspiring set of materials to help teachers encourage cycling within the school. A toolkit containing practical templates, activity sheets, posters and stickers is available to order from the Bikeability website. The materials are designed to fit into the existing curriculum, with clear links to Design and Technology, PSHE, PE and Geography. They also help schools achieve the objectives of the National Healthy Schools programme, including physical activity and emotional health and wellbeing.

Lesson plans include: Benefits of cycling, cycling health, know your area, know your bike, Bikeability Resources Teachers Notes.

http://www.bikeability.org.uk/teachers/resources/get_cycling/teachers_notes.php

Routes2Action (Sustrans)

Hear about what other schools are doing to encourage sustainable and healthy travel. Contains top tips, common Q&As, resource reviews, activity ideas and competitions. For copies and to receive it free each term contact us on 0117 915 0100 or schools@sustrans.org.uk

<http://www.sustrans.org.uk/what-we-do/safe-routes-to-schools/resources/newsletters>

Environmental Travel Association (ETA) The KS2 Walk to School resource aims provide a full themed week aimed at children in years 5 and 6 which will address day to day planning objectives. There is enough material in the resource to last for at least half a term

www.eta-schools.co.uk

<http://www.travelbuster.org.uk/>

Part B - Sustainability

Green Day – A Climate Change Activity Kit for Schools

<http://www.cabe.org.uk/education/green-day>
<http://www.energysavingtrust.org.uk/Travel>

Mobility Week

An established event whereby on the 22nd of September each year, town centre streets across Europe close to traffic, and open up solely for people to enjoy walking, cycling, street theatre, live music, dancing, public art and children's play areas.

<http://www.mobilityweek.eu/All-documents>

<http://www.lesstraffic.com/>

<http://www.yourclimateyourlife.org.uk/>

Streetmap

Tap in your [school or home postcode](#) or town to find a useful streetmap of the area. Useful for working out your route to school.

[Google Earth](#)

[Overview of Climate Change](#)

Part C – Curriculum Links and Syllabus

GCE A Level Geography Paper AQA January 2010 (GEO4B/PM)

The Geographical Issue Evaluation - Advance Information Booklet provides information from NICE Physical Activity and the Environment Guidance), information on Cycle Demonstration Towns, Links to Schools and maps of Guildford showing cycle routes and cycle parking.

KS3 Curriculum Links (thanks to Rachel Hopper at Centro)

There are a wide range of links across the Key Stage 3 curriculum which link to sustainable travel, congestion and climate change. Here are some examples.

Geography

1.1 Place

- a) Understanding the physical and human characteristics of real places.

1.2 Space

- a) Understanding the interactions between places and networks created by flows of information, people and goods
- b) Knowing where places and landscapes are located, why they are there, the patterns and distributions they create, how and why these are changing and the implications for people.

1.3 Interdependence

- 1.4 A. Exploring the social, economic, environmental and political connections between places.

1.6 Environmental interaction and sustainable development

a. Understanding that the physical and human dimensions of the environment are interrelated and together influence environmental change.

2.1 Geographical enquiry

Pupils should be able to

- a. ask geographical questions, think critically, constructively and creatively
- b. Collect, record and display information
- c. Analyse and evaluate evidence, presenting findings to draw and justify conclusions
- d. Solve problems and make decisions to develop analytical skills and creative thinking about geographical issues

2.4 Geographical communication

Pupils should be able to.

- a. Communicate their knowledge and understanding using geographical vocabulary and conventions in both speech and writing.

Science

3.4 The environment, earth and universe

c. Human activity and natural processes can lead to changes in the environment

Citizenship

Principally

2.1 Critical thinking and enquiry

- a. Engage with and reflect on different ideas, opinions, beliefs and values when exploring topical and controversial issues and problems.
- b. Research, plan and undertake enquiries into issues and problems using a range of information and sources
- c. Analyse and evaluate sources used, questioning different values, ideas and viewpoints and recognising bias.

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