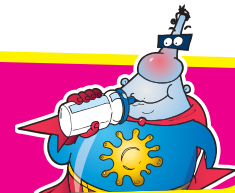


Introduction to teachers



Welcome to Anglian Water's education resource pack. The aim of the pack is to provide an introduction to Anglian Water and our role in the water cycle.

The pack has been structured to provide teachers and pupils with a flexible learning resource which:

- Contains stimulating learning materials.
- Is appropriate for children of differing abilities.
- Includes a broad range of teaching and learning styles.
- Supports the drive towards Eco Schools status and sustainable development.

The topic sections are broken into two clear parts:

- 1 Fact files which contain background information for the teacher and pupils.
- 2 Activity sheets which contain suggested activities and exercises related to the topic.

All material is designed to be photocopied.

Useful websites for more information

The following websites contain teaching aids or are suitable for the pupils to use themselves to carry out research:

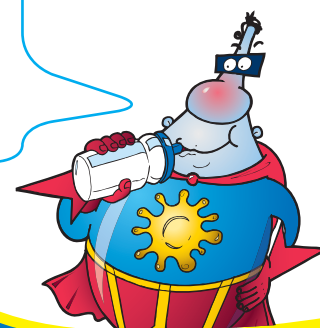
www.anglianwater.co.uk
www.waterintheschool.co.uk
www.oxfam.co.uk/coolplanet
www.thewaterfamily.co.uk
www.wateraid.co.uk
www.waterwise.org.uk

www.yourclimateyourlife.org.uk
(written for older age groups, but some useful information and source material on climate change).

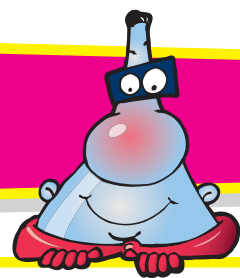
Anglian Water's superhero Captain Splish has his own website, aimed at primary school children. The website includes educational games and activities for pupils and offers teachers posters and information to use in the classroom.

www.captainsplish.co.uk

Look on my website,
www.captainsplish.co.uk,
for more information
about Anglian Water.



Summary of fact file and activity sheet contents



Fact file/ activity sheet number	Title	Key enquiry questions covered in each fact file	Activity sheet learning objective	Possible Key Stage 2 National Curriculum links
1	An introduction to Anglian Water	Who are Anglian Water? What does Anglian Water do? Where does Anglian Water work?	To investigate water services at home	PSHE and citizenship: Developing confidence and responsibility and making the most of their abilities 1e
2	The water cycle	What is the water cycle? What are the different processes and components of the water cycle?	To understand the water cycle, including condensation, evaporation and the role of Anglian Water	Geography: Knowledge and understanding of patterns and processes 4b Science: Changing materials 2e
3	Drinking water treatment	How is water taken from the environment made safe enough for us to drink? What are the key elements of the drinking water treatment process?	To understand the different types of drinking water and decide whether tap or bottled water tastes different	Science: Ideas and evidence in science 1b Investigative skills 1a, 1h Separating mixtures of materials 3a, 3c
4	Making water safe to drink	Why do we need to treat wastewater before returning it to the environment? What problems can dirty water cause if it is returned to the environment untreated?	To investigate the quality of water from different sources	History: Knowledge and understanding of events, people and changes in the past 2c Science: Ideas and evidence in science 1b Investigative skills 1a, 1d, 1h
5	Using water at home	What do we use water for in our everyday lives? How much water do different tasks use up?	To find out how water is used at home	English: Knowledge skills and understanding – Composition 1a-e Mathematics: Solving numerical problems 4a
6	Are you waterwise?	Why is it important to be waterwise? What can we do to help avoid wasting water?	6a: To think about ways in which water can be saved at home 6b: To use mathematical skills to solve real-life problems	Geography: Geographical enquiry and skills 1a-c Knowledge and understanding of climate change and sustainable development 5a PSHE and citizenship: Preparing to play an active role as citizens 2a, 2j
7	Water for health	What are the health benefits of drinking water? How much water do we need to drink to stay healthy?	To understand the importance of drinking water	PSHE and citizenship: Developing a healthy, safer lifestyle Art: Investigating and making art craft and design 2c Science: Life processes and living things 2b

8	Cleaning wastewater	Why do we treat wastewater? What are the key elements of the wastewater treatment process?	To find out how to separate solutions using filtration	Geography: Knowledge and understanding of climate change and sustainable development 5a Science: Separating mixtures of materials 3a
9	Are you sewerwise?	What is the sewer system? What problems do blockages in the sewer system cause and how can they be prevented?	To make a bird cake out of leftover fat and learn how to recycle waste	History: Knowledge and understanding of events; people and changes in the past 2c PSHE and citizenship: Preparing to play an active role as citizens 2a, 2j Science: Changing materials 2d
10	Protecting our natural environment	What damage can pollution do to the environment? How does Anglian Water help improve the quality of the natural environment it works in?	To know that when solids do not dissolve or react with water they can be separated by filtration	Geography: Knowledge and understanding of climate change and sustainable development 5a, 5b Science: Separating mixtures of materials 3b PSHE and citizenship: Developing a healthy, safer lifestyle
11	Water and sanitation in the developing world	What are the problems associated with water and sanitation in the developing world? How do charities like WaterAid help those without access to clean water or toilets?	To use the internet to research life in the developing world	ICT: Finding things out 1b Geography: Knowledge and understanding of places 3c PSHE and citizenship: Developing good relationships and respecting the differences between people 4b Preparing to play an active role as citizens 2j
12	Floods and droughts	What are the problems associated with too much or too little rainfall? How does rainfall amount vary over the UK?	To interpret data in maps, tables and graphs	Geography: Geographical enquiry and skills 2c Knowledge and understanding of patterns and processes 4a Knowledge and understanding of places 3a Knowledge and understanding of climate change and sustainable development 5b