

MARCH 2012

THIS MONTH WE ARE FOCUSING ON:



HEALTHY LIVING



ENERGY



BIO DIVERSITY



HEALTHY LIVING:

- Did you know you can help the environment and keep healthy?
- Walking is good exercise and has no carbon emissions
- Can you walk once a week instead of taking the car, for example: walk to school or the local shops



ENERGY:

- The WWF Earth Hour is held every year. This year it is 31st March at 8.30pm
- Could you survive for an hour without lights?
- Could you turn off all electrical items for the hour - or longer?
- What can you do for an hour without television or computer games?
- Could you have an 'Earth Hour' every weekend?
- Could you have an 'Earth Hour' at school?



BIO DIVERSITY:

- National Science and Engineering Week - Our World in Motion is 9th to 18th March
- Find out about the Water Cycle and the effects climate change has on it
- Have fun with our coloured ice experiment
- Do you know why solar panels are dark?

MARCH 2012

TEACHER HINTS:



HEALTHY LIVING:

Could you take part in the Walk to School WoW campaign (Walk once a Week)

More details are available:

<http://www.walktoschool.org.uk/our-projects/early-years-and-primary/walk-once-a-week/>

Combine a walk round the school grounds with a biodiversity experiment from the National Science and Engineering Week web site (see below).



ENERGY:

For details on WWF Earth Hour and to register : <http://earthhour.wwf.org.uk>

Hold a wear something bright day at school on 30th March to remind everyone about Earth Hour

Can they find out how much energy a light will use in an hour and how much it will save being switched off?



BIODIVERSITY:

For details of the National Science and engineering week :

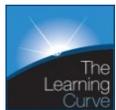
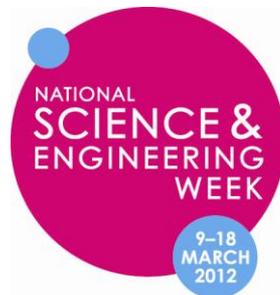
<http://www.britishecienceassociation.org/web/nsew>

There are lots of biodiversity experiments included on this web site.

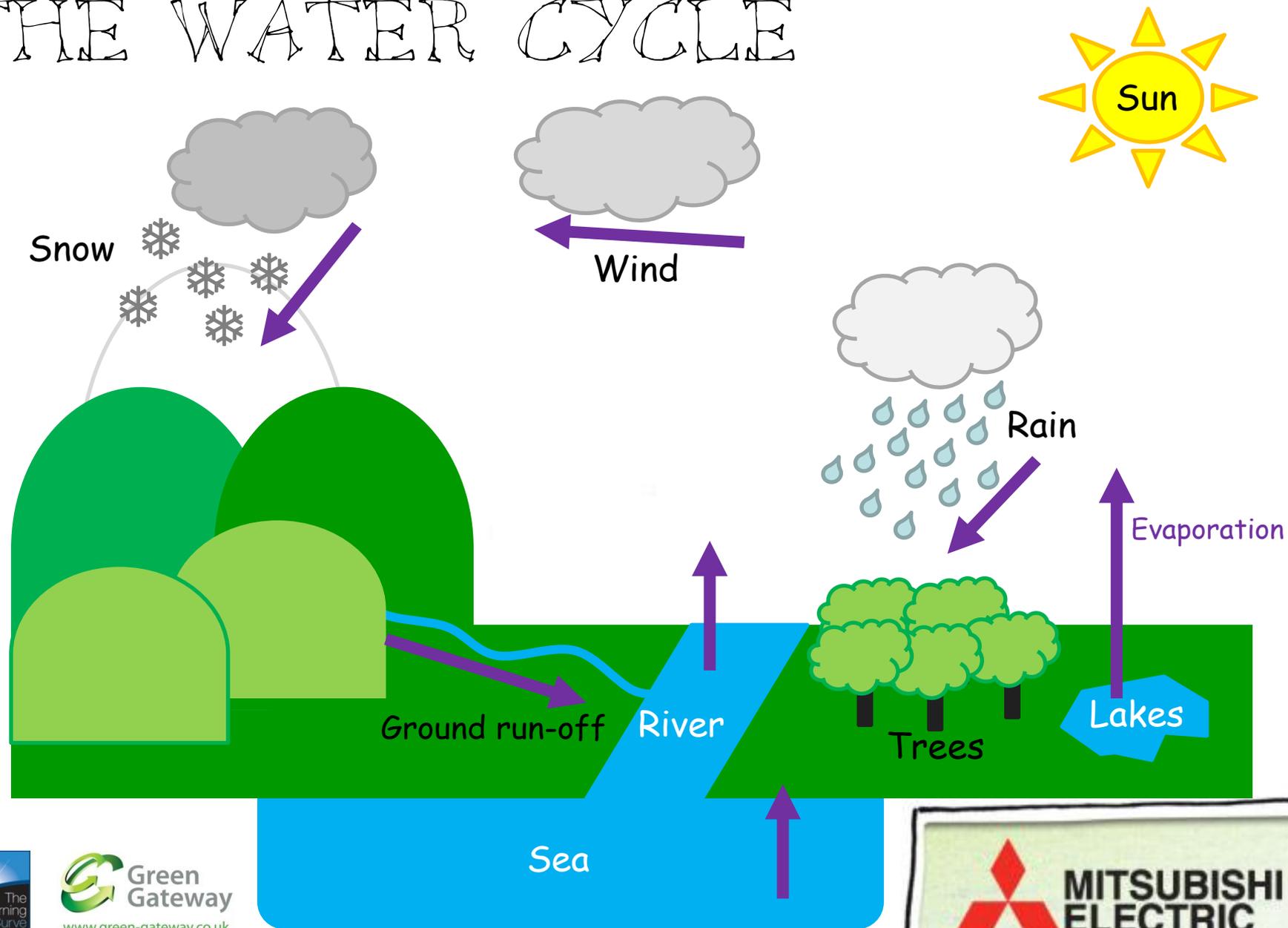
The following pages detail the water cycle and coloured ice experiment.

NATIONAL SCIENCE AND ENGINEERING WEEK 2012

OUR WORLD IN MOTION

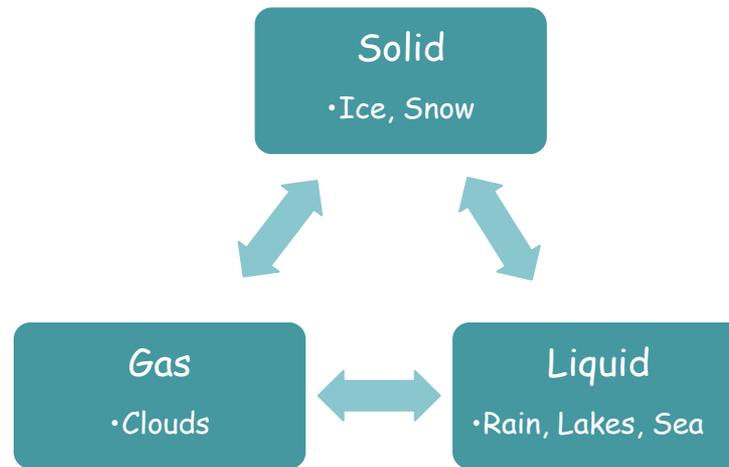


THE WATER CYCLE



THE WATER CYCLE

- The water around us is constantly changing state



- Water is very important , we use water for
 - Drinking
 - Farming
 - Washing
 - Generating Electricity

EXPERIMENT - HEAT ABSORPTION OF COLOURS

An easy experiment to investigate how water changes state and how colour affects heat absorption.



MATERIALS REQUIRED:

- Coloured ice cubes (see teachers hints)
- Stopwatches
- Containers to place melting ice into

RESULTS:

- What happens when ice warms?
- Why do you think some of the coloured ice melt faster than others?
- When snow melts in the water cycle what happens to it?

METHOD:

- Prepare a variety of coloured and non coloured ice cubes
- Give groups of students ice cubes of differing colours
- Students should record the time taken for the ice cubes to melt

DISCUSSION TOPICS:

- How is global warming affecting the water cycle?
- How is deforestation affecting the water cycle?

TEACHERS HINTS

- Use food dyes, milk, and cola to change ice cube colours.
- To speed up the experiment each group of students could be given a single colour ice cube to time then different groups could compare their times at the end of the experiment.