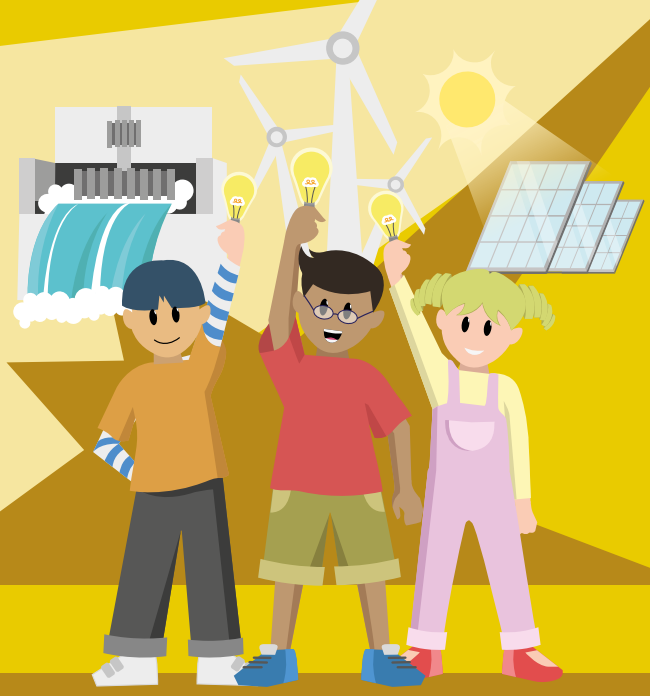
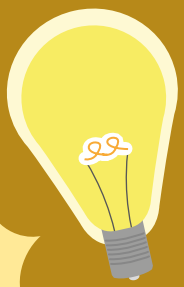
Energy & Transport

Using a lot of energy is a problem, because it's tough on the planet.
The biggest source of energy we use is petrol which creates a lot of dangerous smoke (pollution) that makes people sick and overheats the planet. If we used less energy, our air would be cleaner and the polar ice and glaciers would not melt so quickly.



Did you know?

One hour's worth of energy from the sun could power the earth for a whole year.
This energy can be caught with solar panels.



A LED lightbulb uses 75 per cent less energy than a regular bulb and produces much less heat. Also it can last four years or more and will produce much less heat.

A small crack of **1.5mm** around a window frame can let in as much cold air as leaving the window open **seven centimetres!**

48 people riding bikes for 24 hours can produce enough power to run a TV for a week.
Enough electricity for you to watch your favourite cartoons every day!

15 trillion watts of power are used across our planet at any one time.

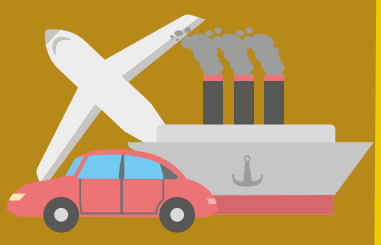
That's the equivalent of powering

10 billion 100-watt lightbulbs at the same time.

Up to 30% of the cold air can escape...
...every time you open the fridge door, which means that the fridge will use more energy to keep the food cold.

Always close the fridge, as quickly as you can!

Almost 20% of the world's energy is used for transport
(cars, planes, boats, etc.).
You should try going to school or do the shopping by bus or on foot. Walking uses your body's energy and keeps you fit!



ROYAL borough of GREENWICH

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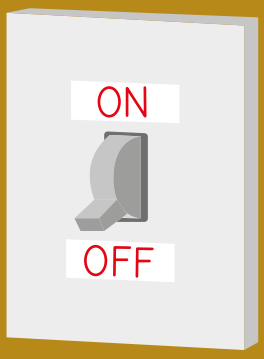
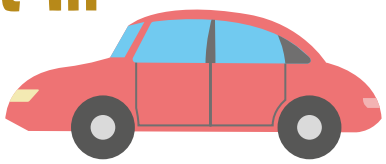
Top Tips

1. Lights out!



Turn off the lights when you leave the room, even if you come back in a few minutes. Don't forget to switch off the TV, your computer and your tablet too if you are no longer using them!

2. If it is hot in the car...



...and you need to use the air conditioning, make sure the windows are shut. If the window is open, it uses 30% more petrol!

3. Take a quick shower instead of a bath.

Your rubber duck will be just as happy and a three minute shower will use a third of the energy needed for a bath. And you will also use half as much water!

4. In winter...

...put on a jumper if you are cold (before turning up the heating). If it's winter, there's no need to run around in a T-shirt. Keeping the temperature of the house between 19 and 21 degrees will save energy and money.

5. Walk or cycle to school if you can...

...instead of using the car. It is good for your muscles, it will keep you fit and healthy and it is good for the planet. You will be saving petrol and reducing pollution. Better for polar bears and for us.

Activities

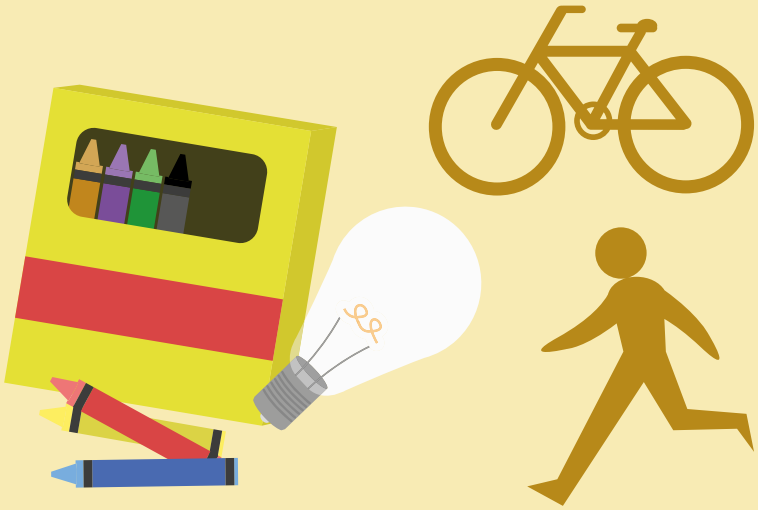
At Home

During "Earth Hour"
– usually in March – don't use electricity in the house, and...have a candle-lit dinner in your kitchen, sit by the fireplace if you have one or cuddle up on the sofa with your family and tell each other stories.

If you like it, you could eat your dinner with no lights once a month!

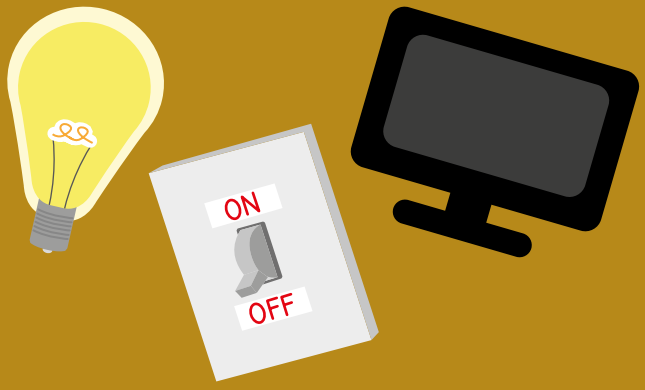
Make art in the dark
Unleash your inner artist and try your hand at creating art in the dark with play dough, crayons or just your pencils. Draw images of your parents, pets or anything you love. And have a laugh when you turn the lights back on!

Make a good resolution!
Reduce your 'carbon footprint', i.e. the amount of energy you use: go to school and to your after-school activities on foot, bike or by bus.



At School

Create reminder cards to turn off the lights, computers and screens.
Stick them onto light switches and screens, reminding everyone at school how to be energy smart! (You can do this at home too!)



Make an Energy Smart Classroom pledge:
Write down ways you and your classmates can save energy within your classroom and school and ask them all to sign it.

You can put your pledge up on the wall to remind everyone what actions they need to take daily. Working together as a team can have a huge impact!

Word search

Can you find all the words littered throughout the grid?

Level 1

CAR
ENERGY
GAS
HEALTHY
PETROL
POWER
SAVING
SOLAR
SUN
WASTE

H Y J E M V F A C H M
G N I V A S C A P N O
P L S B X U R E E R S
V U M T K Q T N P K G
N P O W E R E H H S Y
D F O I O R E B S Z I
A W U L G A M S A G C
D E F Y L L T K I P I
Y D I T V O X U E G C
R W H M T S T Y X R U
B Y T G E T S A W B W

Level 2

CAR
CYCLING
ELECTRICITY
ENERGY
GAS
INSULATION
PETROL
POLLUTION
SAVING
SWITCHING OFF
SOLAR
SUN
TRANSPORT
WALKING
WASTE

L Z I I J N W D R W D U L G D
H G A Q M P W X O L C V K L N
V T I W B U W G O A P U V P I
U K Y P S U A R R S Z U E O E
N I Q O G S T A F O M X N L H
W N H K F E T S G L D D E L U
A S H T P F B G C A J C R U G
L U T R O P S N A R T E G T N
K L C Y C L I N G R Z T Y I I
I A Z L M F Y T I D C S L O V
N T W P R N U C V B B A H N A
G I X Q K O I L I V T W U N S
L O S W I T C H I N G S B U B
U N X T Y P C J Q M V X G B B
U M K X Q I Z K X A D L Z G W