



## Climate change Quiz

Climate change is arguably the biggest environmental challenge facing the New Forest National Park today, but how much do you know about it? Its causes, likely effects and what we can be doing about it?

Try this quiz and find out!

For more information on climate change and the New Forest, and ideas for living more sustainably, visit the climate change pages of our website:

[www.newforestnpa.gov.uk](http://www.newforestnpa.gov.uk)

Small changes can make big differences...



**1**

Can you name two things you use non-renewable energy for in your everyday life?

**2**

What two elements combine to make carbon dioxide?

**3**

Do you think climate change will be good or bad for the New Forest ponies?

**4**

The sun is a great example of a renewable energy source. Can you name two more sources of renewable energy?

**5**

Do you know why sea level rise is greater in the south of England than in Scotland?

**6**

There are loads of ways to save energy around the home, can you think of three?

**7**

Can you name an animal that will lose its habitat as the ice caps melt?

**8**

In a hotter world, do you think the woodlands of the New Forest will be more or less important?

There are so many to choose from! The list below is a few of the things you might have mentioned but there are many, many more...

- Driving or being a passenger in a car
- Taking the bus or train
- Turning on lights
- Watching TV
- Playing computer games
- Charging your phone
- Blow drying your hair
- Boiling the kettle
- Having a hot bath
- Flying
- Cooking... etc, etc

One molecule of carbon and two molecules of oxygen combine to make CO<sub>2</sub> (carbon dioxide).

In the long term climate change could be very bad for the New Forest Ponies – droughts would mean they have less grass to eat and less water to drink, flooding would mean their feet are wet for long periods of time and flash flooding could wash them away, warmer winters might mean there are more pests (normally killed by a cold snap) to both eat their food and bite them!

In the short term climate change could be good for the New Forest Ponies – a longer growing season could mean more grass for them to eat and slightly milder and wetter winters could mean easier winter months with more food and water availability.

How about:

- Wind
- Flowing water
- Tidal water
- Biomass
- Waste
- Ground heat.

Anymore..?

Sea level rise is expected to be faster and more extreme in the south of England than in Scotland as a result of something called isostatic rebound!

The ice in the last ice age got thinner and less heavy towards the south of England and stopped just before the south coast. The weight of the ice in Scotland and northern England pushed the land mass down, and the lack of ice in southern England meant the land mass was forced up, much like a see saw that is unequally loaded.

Now Scotland and northern England are still springing back up, pushing southern England back down.

There are so many to choose from! The list below is a few of the things you might have mentioned but there are many, many more...

- Don't leave things on standby, turn them off at the wall
- Don't leave your phone charging for longer than it needs and don't leave your phone charger plugged in
- Turn the lights off when you leave a room and close the curtains when it gets dark to keep the heat in
- Turn the heating down and put a jumper on
- Only boil as much water as you need and put lids on pans
- Change to energy efficient light bulbs.

The most famous animal that will become homeless as the ice caps melt is the Polar Bear. They are being affected by the earlier melting of sea ice on a yearly basis and changes in sea ice movements. All of this leads to habitat fragmentation, decreased food availability, reduced access to den areas and longer periods of time swimming, which may chill small cubs and reduce their chances of survival.

It is likely that with a hotter climate wooded areas will become more important generally because of the shade they provide and their ability to reduce the air temperature.

Woodlands may also become more important as sources of fuel and as carbon stores. The woodlands of the New Forest may contain different species in the future but it is likely they will be even more highly valued than they are today.

