**Question 1:**

"Global warming" is a real phenomenon: Earth's temperature is increasing.

True X  
False

**Question 2:**

The "Greenhouse Effect" is **real** and contributes to global warming.

True X  
False

**Question 3:**

The main cause of Global Warming is:

a) pollution from factories and automobiles X  
b) orbital eccentricities of Earth and variations in the Sun's output  
c) the Greenhouse Effect

**Question 4:**

The Greenhouse Effect is caused primarily by:

a) water vapor X  
b) carbon dioxide  
c) ozone-destroying aerosol sprays

5)  Hydroelectric energy comes from \_\_\_.\*

* Waterfalls X
* Geothermal drilling
* Coal plants
* Windmills

 What are the scientists currently looking for to replace natural fuels?\*

* Oxygen fuels
* Alternative fuels X
* Wind fuels
* Fossil fuels

 Which is an example of energy transformation?\*

* Coal can be burned but it doesn't give out energy
* The sun makes the vegetables grow. We eat vegetables and they give us energy X
* Natural gas stays in the ground
* The moon gives us energy

 The wind can also be converted to electrical energy with the use of\_\_\_.\*

* Windmills X
* Coal plants
* Hydro plants
* Electric plants

 By definition, energy is\_\_\_.\*

* The force that pulls us to walk
* The force of nature
* The force that allows things to move and happen X
* Sunshine

 What type of energy does the sun provide?\*

* Geothermal energy
* Atomic energy
* Solar energy X
* Nuclear energy

 What do we use to collect the sunlight from the sun?\*

* Solar panels X
* Wet plywood
* Mirrors
* Electrical panels

 How do we know that energy is all around us?\*

* When we are asleep our body continues to breathe and pumping blood
* All of the choices X
* The sun provides energy to make things grow
* When our muscles move

 What kind of energy sources will heat up our planet?\*

* Coal and gasoline X
* Wind
* Solar
* Water

 How do we get energy from food?\*

* We inhale the energy
* The food we eat is converted into chemical energy and keeps our organs working X
* None of the choices are correct
* We store food in our homes and let them emit energy
*  **Which natural resource is not an ingredient in manufacturing glass bottles?**
* A. Sand.
* B. Dirt X
* C. Soda Ash.
* D. Limestone.
*  **How many years does it take a single aluminium can to decompose?**
* A. 20 – 40 years.
* B. 60 – 80 years.
* C. 80 – 100 years. X
* D. 100 – 120 years.
*  **If you recycle a tonne of paper, how many trees are you saving?**
* A. 12 trees.
* B. 17 trees. X
* C. 23 trees.
* D. 28 trees.
*  **Recycling just one aluminium can saves enough energy to run a television for how long?**
* A. 3 hours. X
* B. 6 hours.
* C. 9 hours.
* D. 12 hours.
*  **Which of the following is NOT used to generate electricity in the UK?**
* A. Human waste.
* B. Solar power.
* C. Hydropower.
* D. Perfume. X
*  **When recycling glass it is common to sort bottles by colour, but which colour is NOT common for sorting?**
* A. Blue. X
* B. Clear.
* C. Green.
* D. Brown.
*  **Recycling just two glass bottles saves enough energy to boil water for how many cups of tea?**
* A. 1 cup of tea.
* B. 3 cups of tea.
* C. 5 cups of tea. X
* D. 7 cups of tea.
*  **Most of the energy used on Earth today originally came from which source?**
* A. The sun. X
* B. Oceans.
* C. Soil.
* D. Air.
*  **Which action does NOT save energy in your home?**
* A. Turning all appliances to stand-by when not in use.
* B. Turning off and unplugging all appliances when not in use.
* C. Turning off all lights when not in the room.
* D. Leaving lights on in only the rooms you are moving between. X

1.

WHAT ARE 3 EASY STEPS YOU CAN TAKE TO START SAVING ENERGY?

2.

WHAT ARE 3 MEASURES YOU CAN DO TO MAKE YOU HOME MORE ENERGY EFFICIENT?

3.

WHAT PERCENTAGE OF THE UK CO2 EMISSIONS COME FROM THE HOME?

a) 15%

b) 26% X

c) 33%

d) 48%

4.

HOW CAN YOU USE YOUR WASHING MACHINE MOST EFFICIENTLY?

5.

IF YOU HAVE NO INSULATION IN YOUR LOFT, WHAT WOULD BE THE YEARLY SAVING IF YOU WERE TO

INSULATE IT?

a) £30

b) £80

c) £175 X

d) £325

6.

TRUE OR FALSE?

I.

It’s better to leave your hot water heating on all the time to keep you home warm and cosy,

rather than timing it to go on and off? F

II.

Is it true that more energy is used to turn lights on and off than to leave them running? F

III. Combi boilers are not suitable for small flats? F

IV.

Dishwashers use less water than washing up by hand? T

V.

The biggest source of heat loss from an un-insulated house is through the windows? F

8.

AT WHAT SETTING SHOULD I SET...

a)

my thermostat ?

b)

my hot water tank / cylinder thermostat?

10.

WHAT MEASURES CAN I TAKE TO SAVE ENERGY IN THE WORK PLACE?

**Most of the energy we use originally came from**

1. [the sun](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X
2. [the air](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
3. [the soil](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
4. [the oceans](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)

**2. Electrical energy can be produced from**

1. [mechanical energy](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
2. [chemical energy](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
3. [radiant energy](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
4. [all of the above](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X

**3. Which uses the most energy in American homes each year?**

1. [lighting](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
2. [water heating](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
3. [heating and cooling rooms](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X
4. [refrigeration](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)

**4. The U.S. consumes lots of energy.  Which fuel provides the most energy?**

1. [petroleum](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X
2. [coal](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
3. [natural gas](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
4. [solar](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)

**5. Coal, petroleum, natural gas, and propane are fossil fuels. They are called fossil fuels because:**

1. [they are burned](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect) to release energy and they cause air pollution
2. [they were formed from the buried remains of plants and tiny animals](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) that lived hundred of millions of years ago X
3. [they are nonrenewable](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect) and will run out
4. [they are mixed with fossils](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect) to provide energy

**6. Gasoline is produced by refining which fossil fuel?**

1. [natural gas](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
2. [coal](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
3. [petroleum](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X
4. [propane](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)

**7. Propane is used instead of natural gas on many farms and in rural areas. Why is propane often used instead of natural gas?**

1. [it’s safer](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
2. [it’s portable](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X
3. [it’s cleaner](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
4. [it's cheaper](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)

**8. What sector of the U.S. economy consumes most of the nation’s petroleum?**

1. [residential](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
2. [commercial](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
3. [industrial](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
4. [transportation](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X

**9. Natural gas is transported mainly by**

1. [pipelines](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X
2. [trucks](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
3. [barges](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
4. [all three equally](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)

**10. Global warming focuses on an increase in the level of which gas in the atmosphere?**

1. [ozone](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
2. [sulfur dioxide](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
3. [carbon dioxide](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X
4. [nitrous oxide](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)

**11. Solar, biomass, geothermal, wind, and hydropower energy are all renewable sources of energy. They are called renewable because they**

1. [are clean and free to use](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
2. [can be converted directly into heat and electricity](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
3. [can be replenished by nature in a short period of time](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X
4. [do not produce air pollution](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)

**12. Today, which renewable energy source provides the U.S. with the most energy?**

1. [wind](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
2. [solar](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
3. [geothermal](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
4. [hydropower](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X

**13.  Electricity is the movement of**

1. [atoms](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
2. [molecules](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
3. [electrons](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X
4. [neutrons](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)

**14. How much of the energy in burning coal reaches the consumer as electricity?**

1. [1/3](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) (one-third) X
2. [1/2](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect) (one-half)
3. [3/4](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect) (three-quarters)
4. [9/10](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect) (nine-tenths)

**15. In a nuclear power plant, uranium atoms**

1. [combine and give off heat energy](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
2. [split and give off heat energy](https://www.eia.gov/kids/energy.cfm?page=quiz#correct) X
3. [burn and give off heat energy](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)
4. [split and give off electrons](https://www.eia.gov/kids/energy.cfm?page=quiz#notcorrect)