



# How are we damaging our world?

YEAR 6  
GEOGRAPHY

KNOWLEDGE MAT

## KEY KNOWLEDGE

### Distribution of natural resources

Natural resources such as oil, water, soil, minerals, wind and sunlight are unevenly distributed on earth's surface instead concentrated in specific places.



## KEY VOCABULARY

**Biomass:** biological material derived from living or recently living organisms

**Fossil fuel:** buried organic material from decayed plants and animals that has been converted to oil, coal, and gas over hundreds of millions of years

**Geothermal energy:** heat drawn from inner layers of the Earth

**Human feature:** created by humans, e.g. roads, houses and canals

**Hydro electricity:** electricity that is created by the flow of water

**Mineral:** a solid substance with no origin as a previous life form

**Non-renewable energy:** energy from a source that can be used up and no longer be available

**Physical feature:** naturally occurring feature, e.g. rivers and mountains

**Recycled:** 'discarded' or 'end-of-life items' converted into a reusable item or material

**Renewable energy:** energy source that will never be used up

**Solar energy:** sunlight converted into electricity

**Sustainability:** ability to maintain balance between natural ecological systems through not harming the environment or using up resources that will run out

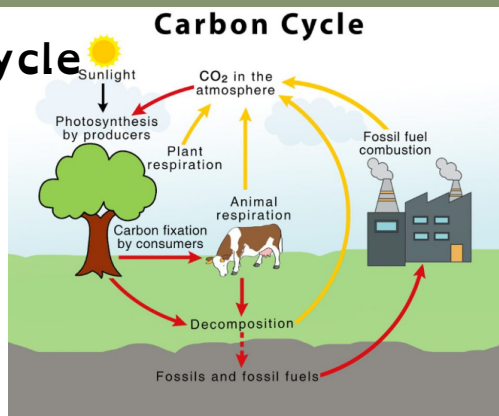
**Tidal energy:** a form of hydropower that converts the energy of tides into useful forms of power

**Wave energy:** the capture of energy from ocean surface waves for electricity generation

**Wind power:** energy extracted from wind using wind turbines to produce electrical power

### The Carbon Cycle

The process in which carbon atoms continually travel from the atmosphere to the earth and then back into the atmosphere.





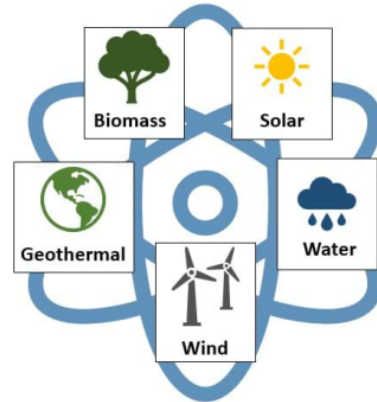
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## KEY KNOWLEDGE

### Renewable energy sources

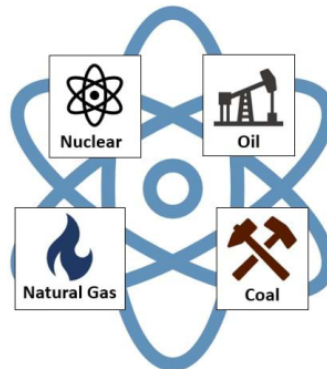
An energy source that cannot be depleted and are able to supply continuous sources of clean energy.



### Non-renewable energy sources

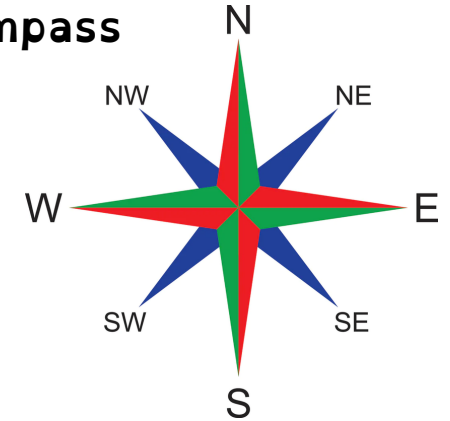
An energy source that originates from natural resources that will run out or not be replenished for many years.

#### NONRENEWABLE RESOURCE EXAMPLES



### 8 Points of a Compass

North  
North East  
East  
South East  
South West  
West  
North West



### Local Power - Calverton



What sources of power are used in Calverton?  
Can you find any others?