

P2 and P3 Knowledge Questions

P2

1. The scientific name for heat energy is _____ energy
2. Heat travels through a solid by _____
3. Heat travels in fluids by _____
4. Heat travels through space by _____
5. Fluids are _____ and _____
6. Metals have higher thermal conductivity than non-metals this means they conduct heat _____
7. Metals have a higher thermal conductivity because they have _____
8. A coloured image showing heat leaving objects is called a _____
9. The amount of energy it takes to heat up 1 kilogram of a substance by 1°C is called its _____
10. Two examples of home insulation are _____ and _____
11. Energy not being stored in useful ways is described as being _____ energy

P2 (separate only)

1. The electromagnetic wave which carries thermal energy is called _____
2. Dark colours are good _____ and _____ of Infra-red
3. Shiny colours are good _____ of infra-red
4. A larger difference in temperature between an object and its surroundings will cause the object to cool _____
5. Carbon dioxide is released from burning fossil fuels. It is an example of a _____
6. Global warming is caused by _____

P3

1. What energy resource comes from the sun _____ energy
2. What are the names of the three fossil fuels _____, _____ and _____
3. There are 3 ways we can get energy from water. Name 2 of them. _____ and _____
4. Energy resources which will not run out are called _____ energy resources
5. Energy resources which are used faster than they are created are called _____ energy resources
6. Fossil Fuels will produce Carbon dioxide which is a _____
7. The energy source which uses hot rocks in the earth is called _____ energy
8. Biofuels are _____ which means no extra carbon dioxide is released into the atmosphere.

P2 and P3 Knowledge Answers

P2

1. Thermal/internal
2. Conduction
3. Convection
4. Radiation
5. Liquids and gases
6. Faster/better
7. Delocalised (free) electrons
8. Thermogram
9. Specific heat capacity
10. Any 2 from: cavity wall insulation, draught excluders, double glazing, triple glazing, loft insulation, carpet underlay, carpet
11. waster

P2 (separate only)

1. infrared radiation
2. emitting and absorbing (any order)
3. reflectors
4. quicker/faster
5. Greenhouse gases

P3

1. solar
2. coal, oil and natural gas
3. any from: hydroelectricity, tidal or wave
4. Renewable
5. Non-renewable
6. Greenhouse gas
7. Geothermal

8. Carbon Neutral