

## **Electromagnetic Spectrum**

1.	What is the purpose of the earth wire in a domestic electrical system?
	What colour is the neutral wire in a plug?
	How does a fuse protect electrical circuits in the home?
4.	What is the typical voltage of domestic electricity supply in the UK?



5. Why are appliances with metal cases connected to the earth wire?
<b>6.</b> Calculate the power used by a device that operates at 230 V and draws a current of 5 A.
7. What is the difference between the live wire and the neutral wire in a domestic electrical system?



<b>8.</b> Calculate the working current of a 230V 2500W tumble dryer and suggest a suitable fuse for the plug.
9. Why is it dangerous to have a broken earth wire on an appliance?
<b>10.</b> Explain the term "double insulation" and why some appliances do not need an earth wire.



	appliance.
12	What happens if a fuse with too high a rating is used in an appliance?
	<ul> <li>How does the grounding (earthing) system protect people from</li> </ul>
	electric shocks?



<b>14.</b> Describe the role of the neutral wire in completing an electrical circuit in the home.
<b>15.</b> Explain the concept of "electrical power" and how it relates to the energy used by appliances.