



Use the wave model to explain observations of the reflection, absorption and transmission of waves.



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Know | |  | Apply  2  1 | |
| Ideas | |  |  |  |
| K1 | A physical model of a transverse wave demonstrates it moves from place to place, while the material it travels through does not, and describes the properties of speed, wavelength and reflection. |  | A1 | Describe the properties of different longitudinal and transverse waves. |
| A2 | Use the wave model to explain observations of the reflection, absorption and transmission of a wave. |
|  |  |
|  | |  |  |  |
| Key words | |
| K2 | **Waves:** Vibrations that transport energy from place to place without transporting matter. |  | A3 |  |
| K3 | **Transverse** **wave:** Where the direction of vibration is perpendicular to that of the wave. |  |  |  |
| K4 | **Transmission:** Where waves travel through a medium rather than being absorbed or reflected. |  |  |  |
| 3 | Extend |  |  |  |
| E1 | Compare and contrast the properties of sound and light waves. |  | E4 |  |
| E2 | Suggest what happens when two waves combine. |  |  |  |
| E3 |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |