

| Lesson | Know | Apply | Extend |
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| 4.3.1 Sound waves, water waves, and energy | I can define frequency and amplitude. <input type="checkbox"/> | I can describe the link between amplitude or frequency and energy. <input type="checkbox"/> | I can explain, in terms of frequency, why we use ultrasound for cleaning and physiotherapy. <input type="checkbox"/> |
| | I can name two parts of a microphone or loudspeaker. <input type="checkbox"/> | I can describe how a microphone and a loudspeaker work. <input type="checkbox"/> | I can explain the link between a microphone and a loudspeaker. <input type="checkbox"/> |
| | I can state what a sound wave transfers, and what it does not transfer. <input type="checkbox"/> | I can describe how sound transfers energy, and how this is linked to generating electricity. <input type="checkbox"/> | I can evaluate locations for the use of waves to generate electricity. <input type="checkbox"/> |
| 4.3.2 Radiation and energy | I can name some waves of the electromagnetic spectrum. <input type="checkbox"/> | I can describe the electromagnetic spectrum. <input type="checkbox"/> | I can describe all the waves of the electromagnetic spectrum in terms of increasing wavelength or increasing frequency. <input type="checkbox"/> |
| | I can name the electromagnetic wave with the biggest wavelength. <input type="checkbox"/> | I can describe the link between frequency and energy. <input type="checkbox"/> | I can explain why only some electromagnetic waves cause ionisation. <input type="checkbox"/> |
| | I can name an electromagnetic wave that can be harmful to living cells. <input type="checkbox"/> | I can describe the effect of radiation on living cells. <input type="checkbox"/> | I can explain why ionisation can be harmful to living cells. <input type="checkbox"/> |