Wave effects

Answers

KS3 science quick questions

This topic online

Activate 3: Waves, sound and light | Exploring Science 7L, 8J

Q	Answer	Remember
1	energy	A wave is a way of transferring energy.
2	ultrasound	Ultrasound reflects off the baby and the echoes are turned into a picture.
3	vibrate	The fast vibrations shake dirt out of tiny gaps a brush could never reach.
4	ultraviolet	UV is just beyond violet in the spectrum, so we cannot see it.
5	skin cancer	UV can damage the cells in your skin - cover up and use sun cream.
6	microphone	Sound pushes on a thin part inside, and its movement makes a changing current.
7	loudspeaker	A loudspeaker does the opposite job to a microphone.
8	low	Squashed regions are high pressure; spread-out regions are low pressure.
9	A	Bigger amplitude, more energy - a loud sound can even rattle a window.
10	X	Higher frequency waves carry more energy, which is why they can do more harm to cells.
11	left to right	A wave always carries energy in the same direction as it travels.
12	chemical	Light absorbed by the film triggers a reaction - the retina in your eye works in a similar way.
13	vibrate	Each particle moves to and fro in place and passes the energy on to the next.
14	electricity	Energy carried by light is transferred into an electric current.
15	ultraviolet	Ultraviolet is just beyond violet, the highest frequency colour we can see.
16	bigger	A louder sound has a bigger amplitude, so the microphone moves more and the current changes more.
17	ultraviolet	Higher frequency waves carry more energy, and UV has a higher frequency than visible light.
18	echolocation	Ships and submarines copy the same idea with sonar.
19	increases	Absorbed energy warms the tissue, which helps it heal.
20	Sunburn is caused by ultraviolet from the Sun being absorbed by skin cells, not by the air	You feel infrared as warmth, but you cannot feel UV at all.

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Q	Answer	Remember
	temperature, so a cool day can still have lots of UV.	

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