

Year 4 Science- Light and Sound Electricity- Monday



This half term we are going to be focussing our scientific learning on light and sound.

What do you already know about light and sound?

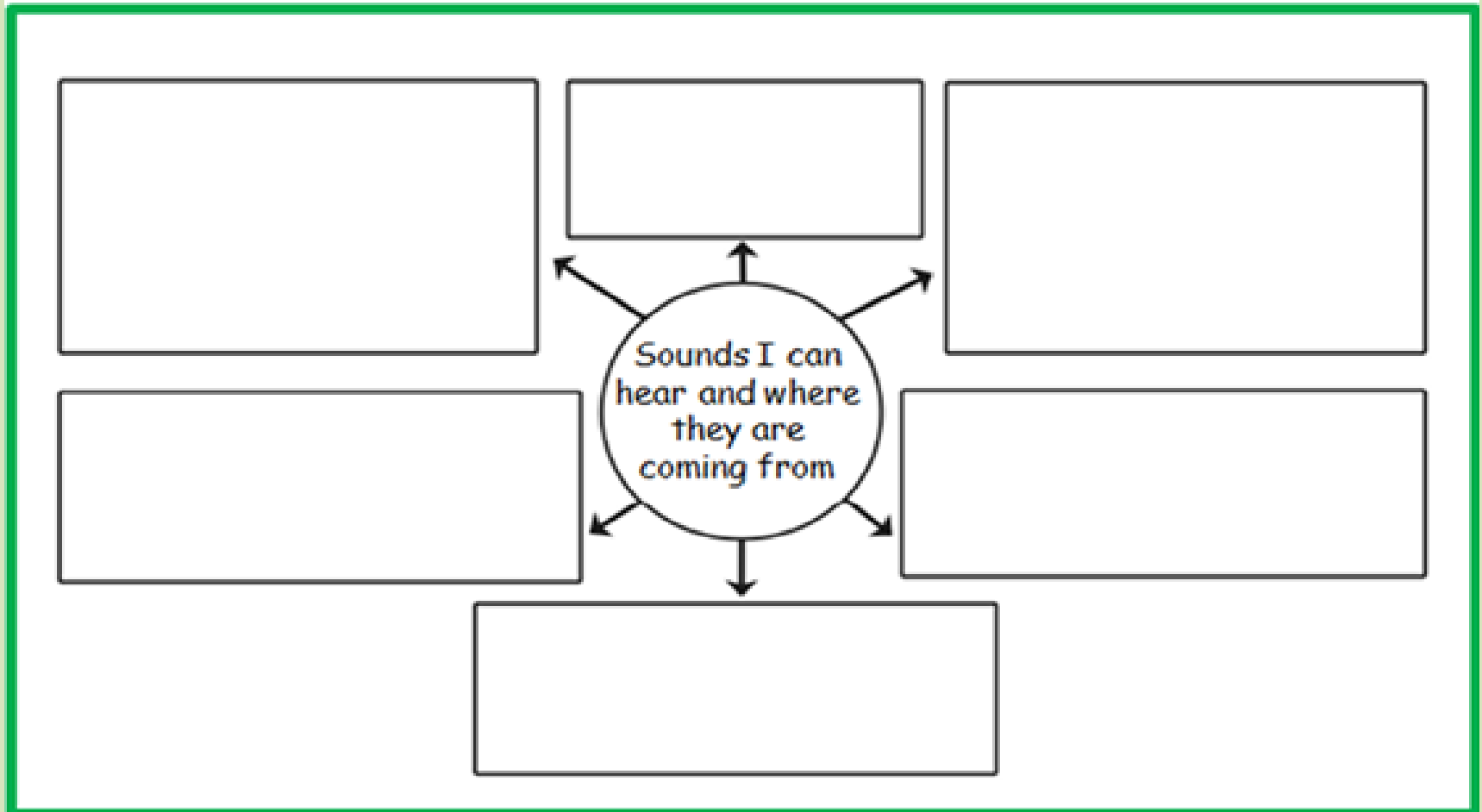
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Draw the following mind map in your book, go outside (in your garden or for a walk) or sit in a room in your house and list the sounds you can hear)

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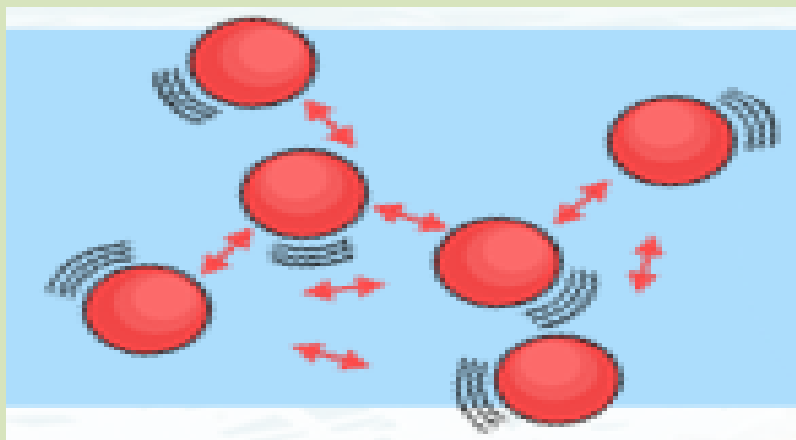
How do you think sound travels from the source (whatever is creating the sound) to your ears?

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Sound travels through the air in waves. Sound is made by the air molecules vibrating.

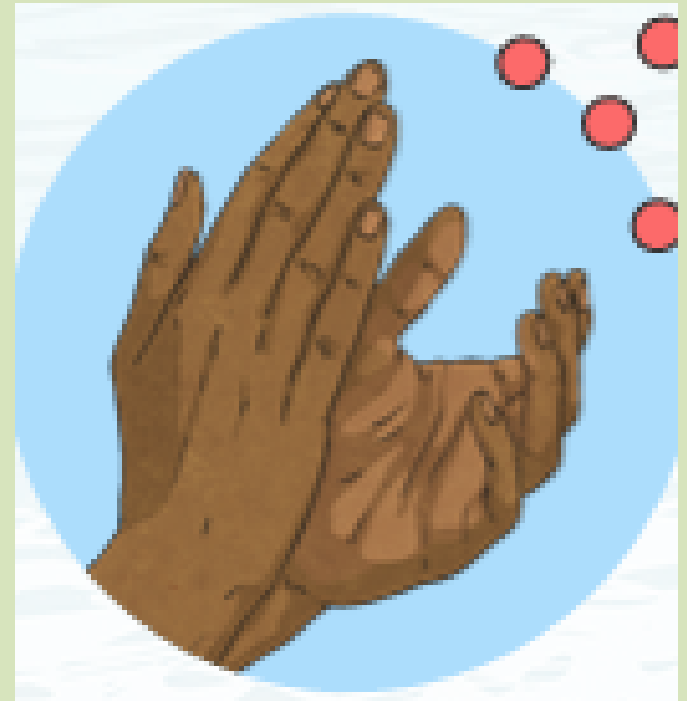


Vibrating- shake quickly back and forth.

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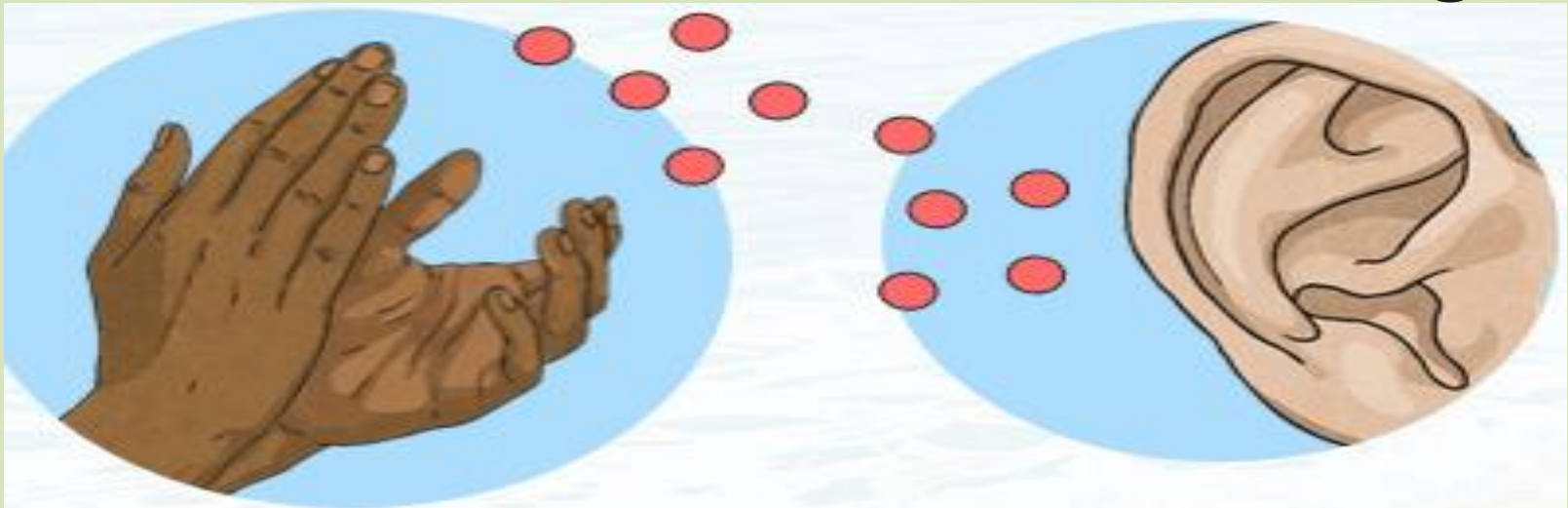
When you clap your hands, the air around your hands shakes. This is the air molecules vibrating.



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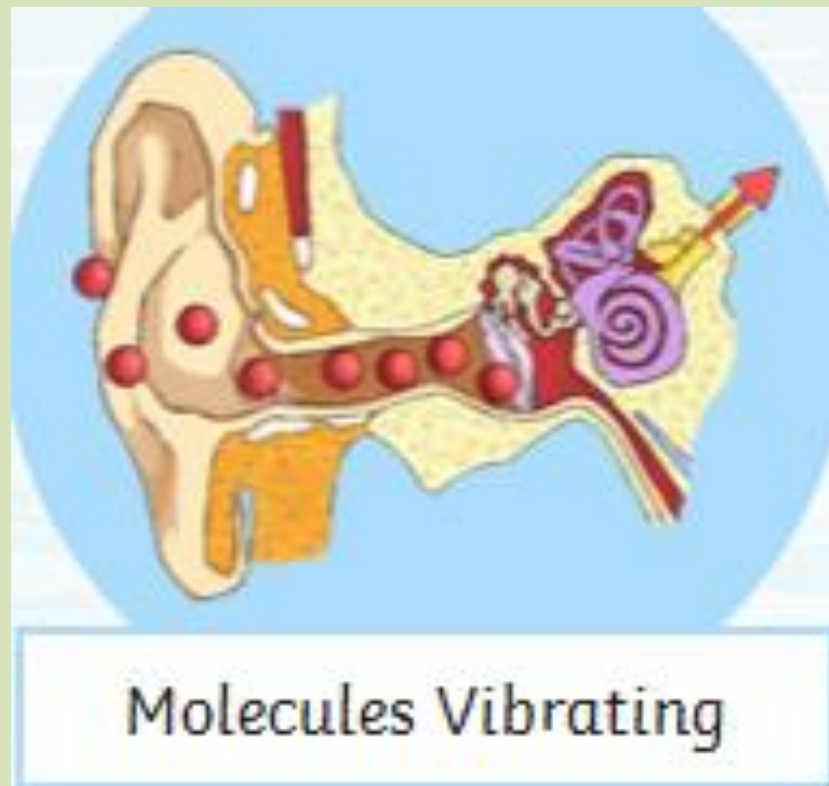
The vibration of the air molecules around the hands shake the molecules next to them and so on, until the air molecules in the ear are vibrating.



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When air molecules inside the ear vibrate, they shake tiny hairs on the insides of the ears. The hairs are connected to nerves under the skin. These nerves send messages to your brain to tell you that you heard a noise.



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Task

Draw the following table in your books, and explain the process of sound travelling from a source to your ears. In the top boxes, draw an image of the three steps (1-Source, 2- Travel, 3- reach ears). Underneath each image, explain what is happening to the air molecules.

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