

CURIOSITY AT HOME

OBSERVATIONS IN SOUND

By closely observing and documenting what is happening all around us, scientists understand and learn about our world. While many observations are made with our eyes, we can use all of our senses to make observations. Make a sound map to practice using your ears to make observations.

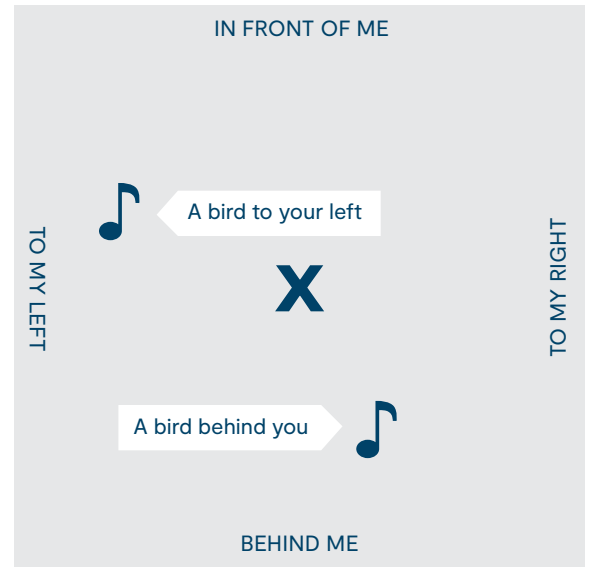
MATERIALS

- Clipboard or other hard writing surface
- Paper or science notebook
- Pencil, pen, or marker

PROCEDURE

1. Find an outdoor space to sit with a clipboard, pencil and paper.
2. Draw an X in the middle of the paper to represent you.
3. Label the four edges of the paper:
 - a. In front of me (top of paper)
 - b. To my right (right edge)
 - c. Behind Me (bottom of paper)
 - d. To my left (left edge)
4. Listen carefully to all of the sounds you hear around you. You can close your eyes to concentrate on the sounds if it helps.
5. If you hear a sound around you, think about where the sound came from. Draw a picture or symbol to represent the sound you heard on the paper in relation to where you are (example: If the sound is behind you, you would place the symbol towards the bottom of the paper).

Examples of symbols, waves could represent running water, a bird chirping could be music notes, or a car horn could be a little car picture.



EXPLORE MORE

Soundscape scientists use sound to understand the world. Through a citizen science project, Record the Earth, people can record the sounds around them and add them to a database that scientists are using to study sounds all around Earth.

- Explore the sounds of the globe that citizen scientists have shared through the Record the Earth website – <https://www.recordtheearth.org/>
- Help scientists by uploading your own recording of the sounds in your community by through the Record the Earth app (available for Android and iPhones).

Experiment continued on next page...



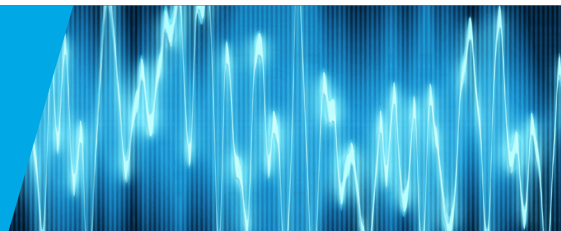
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K–2 GRADE EXPLORATION

- What sounds did you hear?
- Did you hear anything that you didn't hear or notice before?
- Were there sounds made that you were unsure about what was making them?
- What might be present on your sound map if you made another map at the same location at a different time of day?



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