

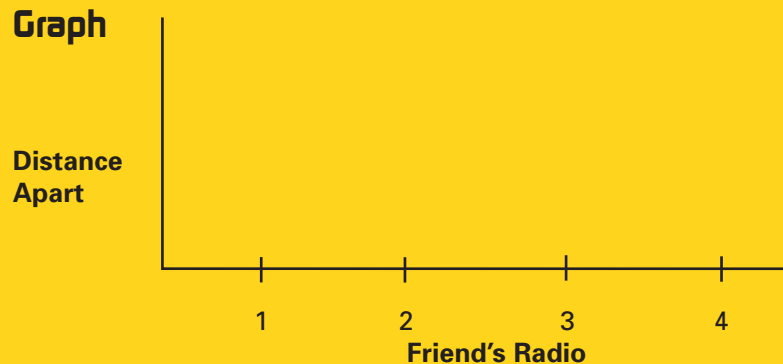
Science In Your Backyard: Loud Sounds



Investigate how sound fades with distance. Go outside and stand back to back with a friend. You'll need two portable radios with speakers, not earphones. Your friend sets her radio to a loudness setting of 2 (on a scale of 1 to 4); you set yours to a setting of 1 (quieter than your friend's radio). You walk away until you think your friend's radio sounds as loud as yours. Measure the distance. Now return to your friend. Keep your radio at 1, but have your friend turn her radio to 3. Walk away again until they sound the same. Repeat with your friend's radio at 4. What do you notice about the distance? Record your findings, and make a graph in the space below.

| My radio | Friend's radio | Distance apart when they sound the same |
|----------|----------------|---|
| 1 | 2 | |
| 1 | 3 | |
| 1 | 4 | |

Graph



Tell us about your results and send them to DragonflyTV.
Find out how at

<http://pbskids.org/dragonflytv/beon.html>

