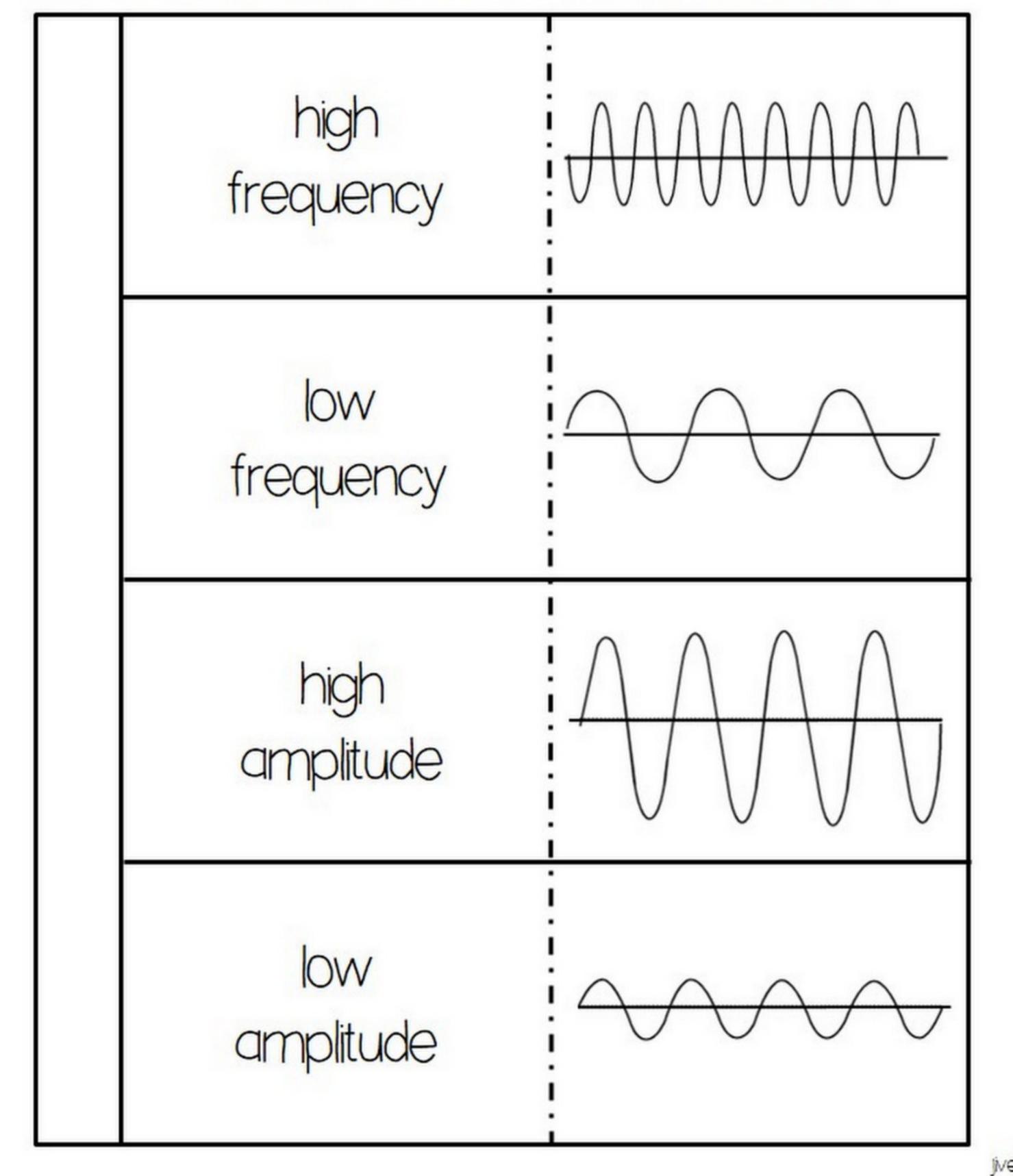
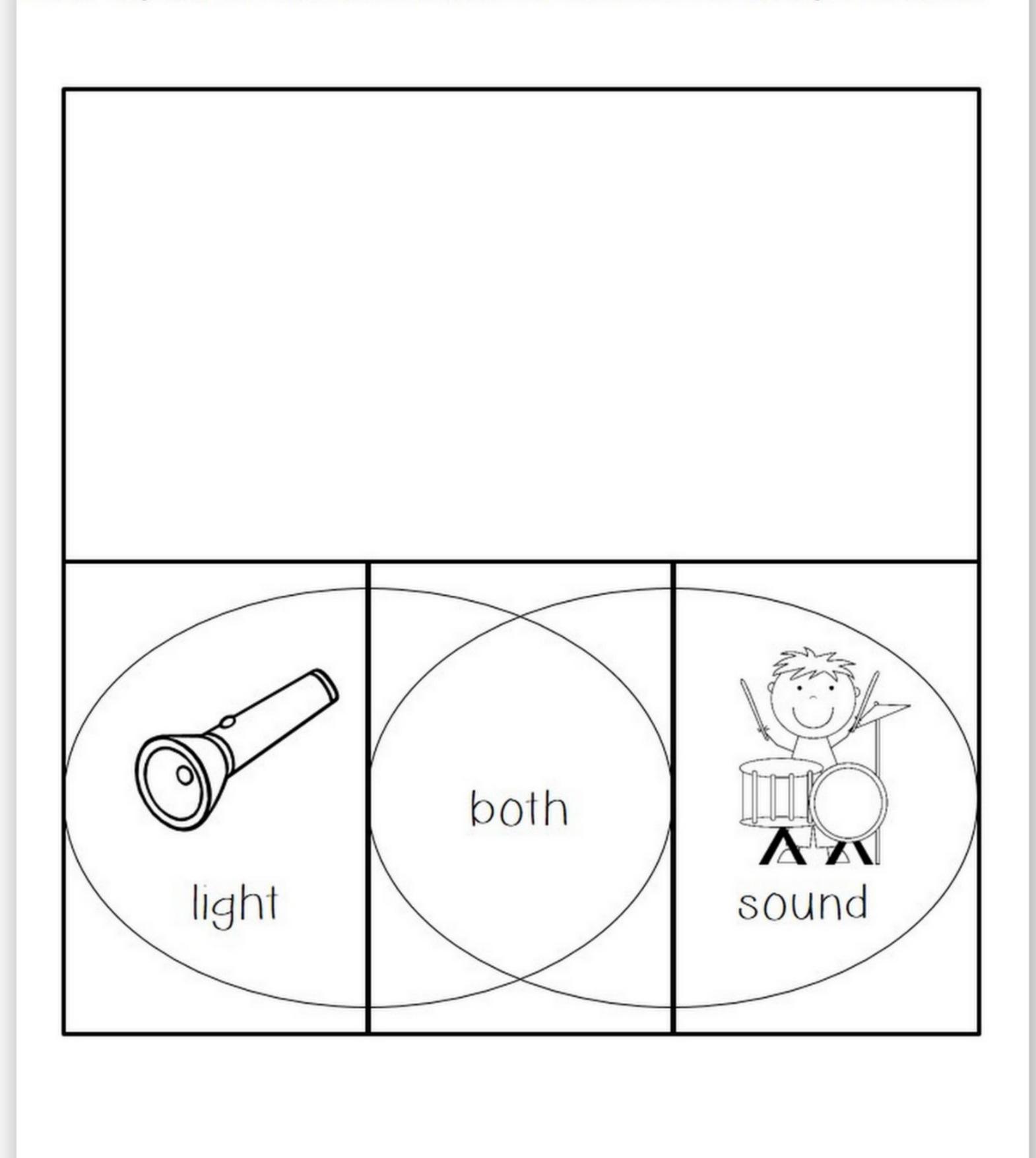
Frequency and Amplitude

Cut around the entire foldable, then cut on the solid lines to make four flaps. Fold the flap closed on the dotted line and label the outside "pitch" or "volume" to show what the properties affect. Under the flap in your notebook, use adjectives to describe the sound you might hear based on the properties on the front.

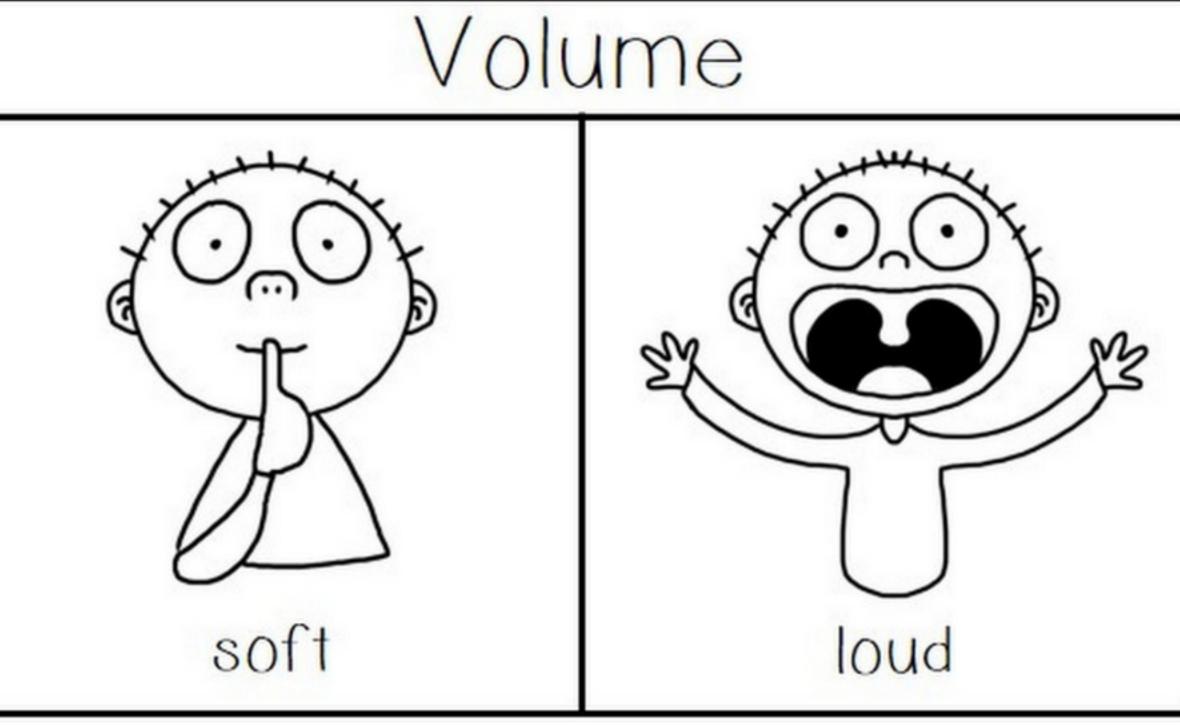


Light and Sound

Out around the entire foldable, then cut on the solid lines to make two flaps on the Venn Diagram. Tell about the similarities and differences between light and sound.

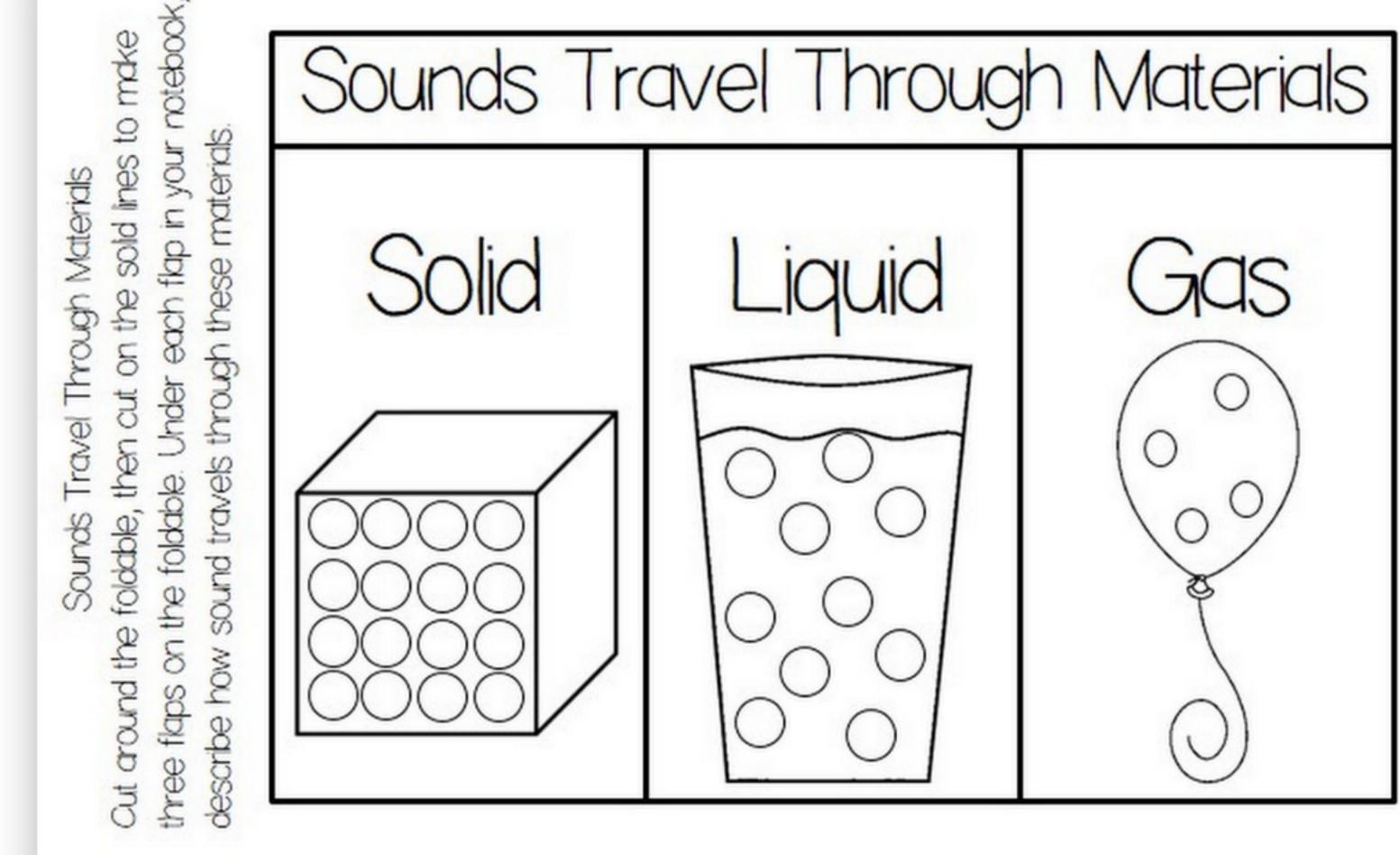


Volume and Pitch Cut around both foldables, then cut on the solid line to make two flaps on each foldable. Under each flap in your notebook, describe how that sound is made and list some things you've heard that have that property. Volume





high





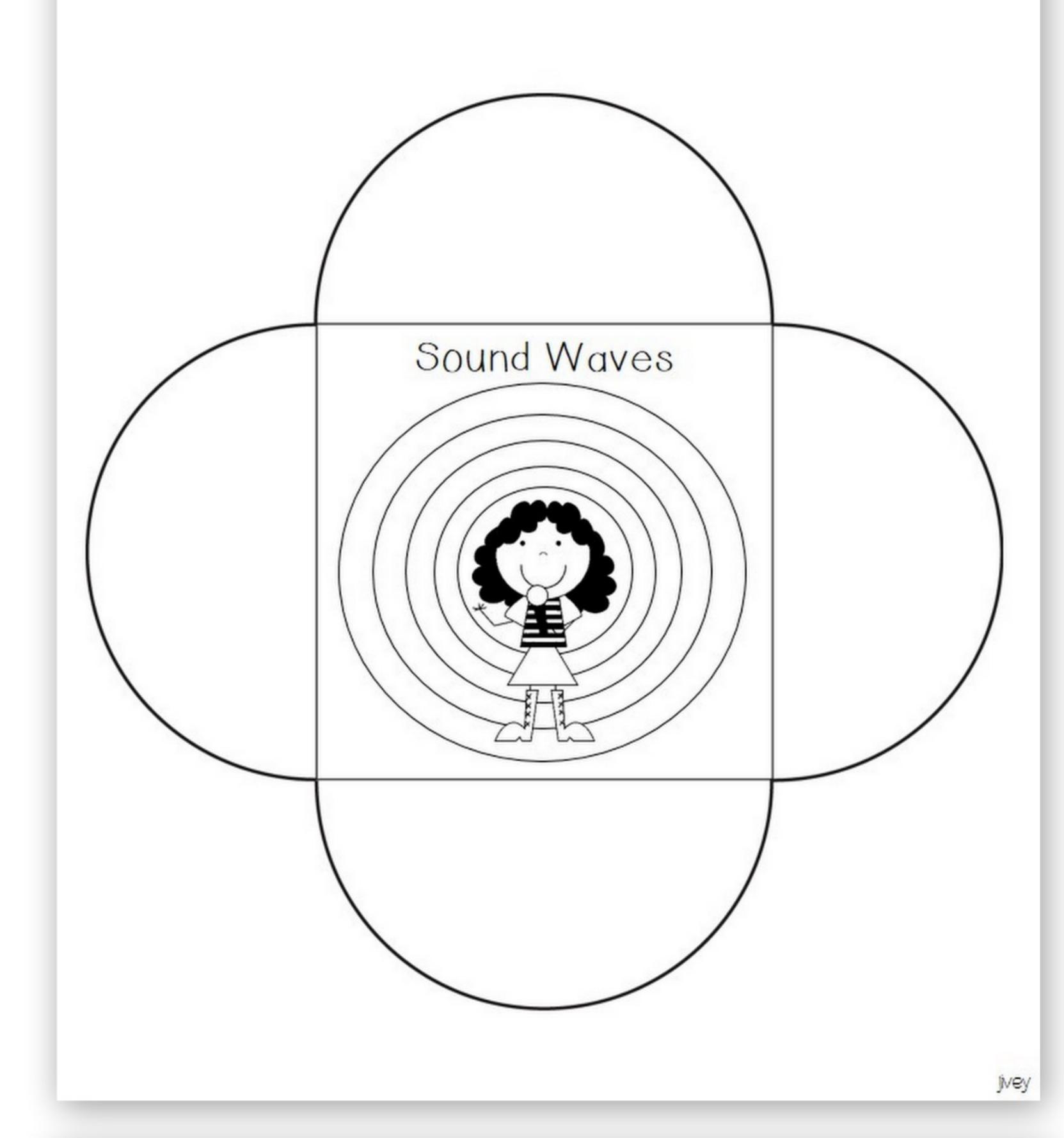
Interactive Notebook Activities

Created By: Ideas By Jivey

a supplement for your sound unit

Sound Waves

Cut around the foldable. The flaps fold down to cover the picture. On the inside of each flap, describe sound in the picture.



Suggested Answers:

Sound Waves:

The girl is producing vibrations into the microphone.

Vibrations make sound waves.

Sound waves move in all directions away from the source.

You can't see sound waves, but if you could, they'd look like ripples in a pond.

Sounds Travel Through Materials:

The circles on the pictures are representing the molecules — solids have molecules that are very close together, so sound travels fastest through solids because the molecules can vibrate faster. Liquid molecules are farther apart so sound doesn't travel as fast through liquids like water Molecules in a gas are even farther apart, so sound travels the slowest through gases like air.

Volume and Pitch:

soft: only a small amount of energy is used — whispers, gently tapping, hums loud: a large amount of energy is used — slamming door, yelling, concert high: many sound waves, or vibrations — squeal, siren, tweeting bird low: few sound waves, or vibrations — tuba, lion roar, thunder

Frequency and Amplitude:

high frequency: pitch- high, shrill low frequency: pitch- low, deep high amplitude: volume- loud low amplitude: volume- soft, quiet

Light and Sound:

Both forms of energy, both travel in waves, both are received by our senses (sight/hearing), both can bounce (reflect/echo)

Light travels in straight waves, and travels slower through water than air Sound travels in all directions, and travels slowest through air

jivey