

A1. What do you Notice?

Record your observations and any questions they raise for you in a table in your science notebook.



What do you observe?	What questions do you have about these observations?

B1. Share Observations: Small Group



Turn and talk: What did you observe?

- Reference specific moments in the video so that everyone understands what you're talking about.
- Why do you think those things happened?
- What was puzzling to you? What questions do you have about what you observed?

B2. Share Observations: Whole Group

- Reference specific moments in the video so that everyone understands what you're talking about.
- Why do you think those things happened?
- What was puzzling to you? What questions do you have about what you observed?

What do you observe?	What questions do you have about these observations?

C1. Develop Initial Models

- Draw and label a model to help you explain your thoughts on this question: **Why would a sound coming from one thing make another thing far away move?**
- Use the space on the activity sheet provided. Show a zoomed in view of what is happening in each of the 3 locations:
- Use pictures, symbols and words
- Record questions that you have if you become stuck.

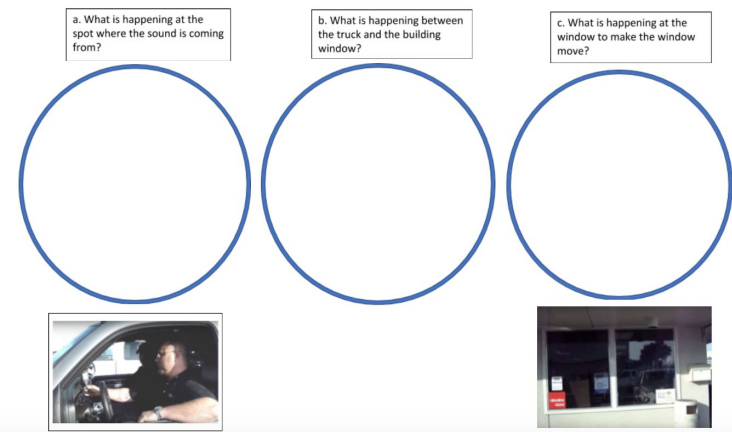
Lesson 1 Handout: Making Sense

Initial Models: Draw and label a model to help you explain your thoughts on this question: **Why would a sound coming from one thing make another thing far away move?** Show a zoomed-in view of what is happening at locations a, b, and c.

a. What is happening at the spot where the sound is coming from?

b. What is happening between the truck and the building window?

c. What is happening at the window to make the window move?



The activity sheet contains three large blue circles arranged horizontally. Above each circle is a question in a small box. Below the circles are two small photographs. The first photo shows a person in the driver's seat of a truck. The second photo shows a window in a building.

D1. Compare Initial Models



Turn and talk: What is similar and different between your group members' models?

Have one member of your group keep track of these similarities and differences.



Be prepared to share your ideas with the whole class.

E1. Initial Class Consensus Model



Develop a whole-group record of consensus and disagreement across the initial models.

- What do we all seem to agree on?
- What do we disagree on?
- What are some new ideas that we may want to consider?

E2. Model Tracker

Tape the **Model Tracker** into the back of your science notebook.

Fill out the first two questions and the first row on the Model Tracker

Lesson question	Evidence	What did we figure out?	How can we represent this?

F1. Related Phenomena

Individual Brainstorm:

Think about examples of other times when...

- You have heard (or couldn't hear) a sound or noise from a distance
- You have seen sound make something happen
- You have heard different kinds of sounds (loud, soft, high, low)

Try to come up with ones that make you wonder why or how that happened.

Be prepared to share your ideas with the whole class.

G1. Initial Questions

Review:

- Initial Observations
- Initial Models
- List of Related Phenomena

How you can detect different sounds from a distance?

Write one question per sticky note

H1. Driving Question Board

- Read your question and say what part of the model it addresses.
- Next student poses their question AND how it relates to other questions on the board.
- Place similar/same questions on top/near each other.
- Continue until all have their questions up on the board.

1. Ideas for Investigations

Individual Brainstorm:

- List or draw some ideas for investigations to help answer some of our questions we posted to the board.
- Keep track of the question that each investigation idea could help answer.

Turn and talk: Share ideas for investigations.

Be prepared to share your ideas with the whole class.

J1. Navigation: Where Should we Start?

- Let's take a moment to look back our questions we posted on our model on our DQB.
- What part of the model does it make most sense to explore first and why?