

A1. Navigation

We now have initial models, ideas for investigations, and a lot of questions.



Turn and talk

Where did we say we should start to try and answer some of our questions?

A2. Exploring Speakers

1. Title a new page in your notebook
“What’s Happening Inside the Speaker to Make Sounds?”
2. Observe the speakers-what do you notice?
3. If we wanted to see what is happening with the speaker when it is making sound, what would we need? What could we observe or record?



A3. Exploring Speakers

- Make a heading in your notebook:
Observations
- Play different sounds and record any observations in your notebook.
- Be prepared to share your observations with the whole group.



A4. Exploring Speakers



Share your Observations with the whole group.



B1: Slow Motion Speaker Video

Create a table like the one below to record your observations.

Data Source	Observations
Slow Motion Speaker, Muted	
Slow Motion Speaker, Sound on	

B2. Slow Motion Speaker Video



Turn and talk: Share your observations with a partner after each viewing and be prepared to share with the class.

C1. What Have We Figured Out?



What have we figured out that helps answer the question: **What is happening inside the speaker to make sounds?**

Decide what ideas, as a class, you want to add to the **Model Tracker**.

Lesson Question	Evidence	What did we figure out?	How can we represent what we figured out?
What's Happening Inside the Speaker to make sounds?			

D1. Navigation

- Can the speaker moving back and forth in different ways really be what is producing different sounds?
- Do other things that produce music also move back and forth when they are making sound?
- How might we go about investigating this question further?