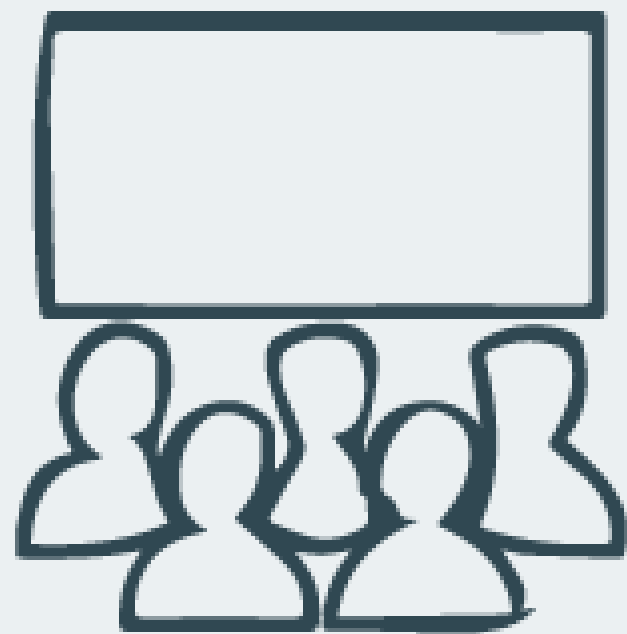


Navigate

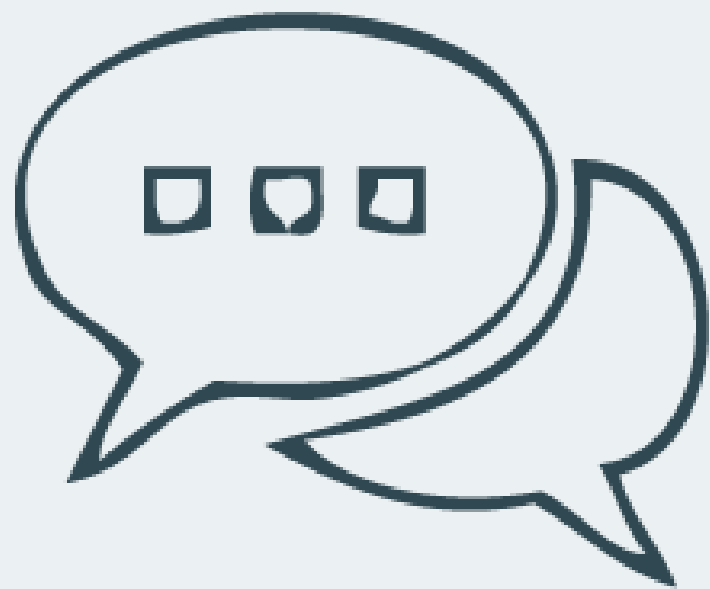


With your class

- What do you predict will happen if we kept increasing the magnitude of forces acting on a stationary solid object?
- Do we have evidence that this could happen to big pieces of land

Consider Related Phenomena

Any solid object that changes shape temporarily when forces are applied to it, and then returns to its original shape after those forces are removed, is considered to have **elastic behavior** (it behaves like a spring).



Turn and Talk

- What other materials have you seen exhibit elastic behavior like the foam?
- Does solid rock have elastic behavior?

→ Be ready to share your ideas with the class!

Gather and Communicate Information



On your own

- Highlight any ideas in the reading that can help answer our central question:

Does solid rock have elastic behavior?

- Answer the 4 additional sensemaking questions throughout the reading.

Navigate

- Most earthquakes happen near plate boundaries.
- Afar's earthquake and some other earthquakes do not.



Turn and Talk

Use the ideas from the reading and the M-E-F poster to help explain either of these phenomena.

Exit Ticket

We just used the ideas from the reading and the M-E-F poster to try to explain either of these phenomena:

- Most earthquakes happen near plate boundaries.
- Afar's earthquake and some other earthquakes do not.



On your own

What new question(s) did this raise for you?

→ Be ready to share your ideas and questions with the class next time!

Update Personal Glossary



On your own

Use words and drawings to add meanings of new terms, such as:

- *elastic behavior*
- *deformation*
- *elastic limit*

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