S8P4. e. I can analyze and interpret data to predict patterns in the relationship between density of media and wave speed.

How Do Different Mediums Affect Wave Speed Video Notes

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1. The speed of electromagnetic and mechanical waves are actually the exact _____ when they travel through different types of _____.

2. What do electromagnetic waves travel fastest through? _____ What do electromagnetic waves travel slowest through? _____

Quick Check for Understanding!

Would electromagnetic waves travel faster through a pitcher of lemonade or through you? Explain your answer. _____

_____

_____

3. What is one of the biggest differences between mechanical and electromagnetic waves? _____

_____

_____

4. What do mechanical waves travel fastest through? _____ What do mechanical waves travel slowest through? _____

5. Why do mechanical waves travel fastest in solids? _____

_____

6. Why do mechanical waves travel slowest in gases? _____

_____

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Quick Check for Understanding!

Which organisms communicated the fastest….animals on land or animals in the ocean? Explain your answer. _____

_____

_____

_____

In summary, electromagnetic waves travel _____ in the _____ of space and _____ down as they go from gases, liquids, to solids. Mechanical waves on the other hand travel fastest through _____ and _____ down as they travel through liquids, gases, and the vacuum of _____

These differences between electromagnetic and mechanical waves are largely because electromagnetic waves _____ need a _____ to travel through like the vacuum of space, and mechanical waves _____ a _____ to travel through like _____. These 2 properties are why their wave speed travel is in _____.

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