

## Topic 3: Lesson 1

### Properties of Waves

#### Success Criteria

- I can describe the basic properties of waves
- I can describe how waves can cause objects to move

#### Vocabulary

wave	Amplitude	Wavelength	Frequency
Transverse	Crest	Trough	longitudinal

#### Check-in 1:

• When a loudspeaker plays music, what happens to the air molecules?

- A) They completely disappear
- B) They remain completely still
- C) They start vibrating and pass energy to nearby molecules
- D) They create a permanent sound barrier

#### Create a wave

How does the wavelength of the rope pattern change when you use **more or less energy**?

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How does the amplitude of the rope pattern change when you use **more or less energy**?

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