

Matching Pairs Wave Properties

Activity 1 Definitions

This activity presents learners with 8 different terms that must be matched by meaning. Learners tap on the terms to select them and then tap on the Check Match button. The order of the terms is randomized. A mis-matched pair restarts the *game* and re-randomizes the order of the terms. The terms are ...

The distance traveled by a point on the wave per unit of time.

Amplitude

The number of back and forth cycles per second.

Speed

Distance from rest position to a crest position.

Frequency

Wavelength

Distance from a crest to the next adjacent crest.

Activity 2. Conceptual Meaning

This activity presents learners with 8 different terms that must be matched by meaning. Learners tap on the terms to select them and then tap on the Check Match button. The order of the terms is randomized. A mis-matched pair restarts the *game* and re-randomizes the order of the terms. The terms are ...

How fast

Amplitude

How often

Speed

Frequency

How high

Wavelength

How long

Activity 3 Mathematical Meaning

This activity presents learners with 8 different terms that must be matched; four are the names of wave quantities and four are common units of expression. Learners tap on the terms to select them and then tap on the Check Match button. The order of the terms is randomized. A mis-matched pair restarts the *game* and re-randomizes the order of the terms. The terms are ...

The maximum distance that a point on the medium is displaced from rest.

Period

Amplitude

The distance a point on the wave travels divided by the time of travel.

The number of cycles divided by the time for those cycles to occur.

Speed

The time divided by the number of cycles of vibration occurring during that time.

Frequency

Activity 4 Units

This activity presents learners with 8 different terms that must be matched; four are the names of wave quantities and four are common units of expression. Learners tap on the terms to select them and then tap on the Check Match button. The order of the terms is randomized. A mis-matched pair restarts the *game* and re-randomizes the order of the terms. The terms are ...

Period

Wavelength

Frequency

Speed

meters

seconds

meters/second

Hertz

Activity 5 Symbols

This activity presents learners with 8 different terms that must be matched; four are the names of wave quantities and four are symbols used to represent those quantities. Learners tap on the terms to select them and then tap on the Check Match button. The order of the terms is randomized. A mis-matched pair restarts the *game* and re-randomizes the order of the terms. The terms are ...

Period

Wavelength

Frequency

Speed

T

lambda symbol λ

f

v