Investigations Guide Vocabulary

Investigation 1: Make Waves
amplitude
compression wave
crest
frequency
kinetic energy
longitudinal wave
node
pulse
reflection
transverse wave
trough
wave
wavelength

Investigation 2: Wave Energy
absorb
brainstorm
constraint
criterion
decibel
energy
inverse relationship
mechanical wave
medium
prototype
research
variable

Investigation 3: Light Waves
angle of incidence
angle of reflection
color
electromagnetic spectrum
electromagnetic wave
filter
incident beam
interface
laser
normal line
ray
reflected beam
refraction
spectroscope
spectrum
total internal reflection

Investigation 4: Communication Waves
amplitude modulation (AM)
analogue
binary
carrier wave
demodulation
digital
fiber optics
frequency modulation (FM)
modulation
optical fiber
pixel
resolution
Science Resources Vocabulary

Investigation 2: Wave Energy
absorb
acoustic engineer
acoustics
amplitude
brainstorm
compression wave
constraint
crest
criterion
decibel (dB)
echo
energy
frequency
kinetic energy
longitudinal wave
mechanical wave
medium
model
node
oscillation
pattern
pitch
property
prototype
pulse
reflect
reflection
reverberation
trough
tsunami
variable
velocity
vibration
volume
wave
wavelength

Investigation 3: Light Waves
angle of incidence
angle of reflection
electromagnetic spectrum
electromagnetic wave
emit
filter
gamma ray
incident beam
infer
infrared (IR) wave
interface
inverse relationship
laser
light
microwave
normal line
photon
primary wave (p-wave)
prism
radiation
radio wave
ray
reflected beam
refract
refraction
secondary wave (s-wave)
seismic wave
seismograph
seismologist
spectroscope
spectroscopy
transparent
transverse wave
ultraviolet (UV) light
visible light
white light
X-ray

Investigation 4: Communication Waves
amplitude modulation (AM)
analogue
binary
carrier wave
cohere
demodulate
digital
fiber optics
frequency modulation (FM)
modulation
optical fiber
pixel
resolution
sampling rate
telecommunication
telegraph
total internal reflection
transducer