

# JEOPARDY!

ADVANCED - FRESHMEN -  
PHYSICS - SECOND -  
SEMESTER EDITION

**BY: KYRA AITELLI**

**(TEMPLATE CREDITS AT END OF SLIDESHOW)**

# GENERAL INFO

- Each question has a 30 second time limit
- If a team does not answer a question correctly, they cannot choose that category next turn
- The prior rule may result in a skipped turn at the end of the game (too bad so sad)
- Each team member must answer the same number of questions as other team member

# JEPARDY BOARD

FINAL JEPARDY

Energy

Light

Waves +  
Sound

Stargazing

Solar  
System

\$100

\$100

\$100

\$100

\$100

\$200

\$200

\$200

\$200

\$200

\$300

\$300

\$300

\$300

\$300

\$400

\$400

\$400

\$400

\$400

\$500

\$500

\$500

\$500

\$500

# Energy - \$100 Question

What unit is energy  
measured in?

Click to see answer



# Energy - \$100 Answer

Joules (j)

[Click to return to Jeopardy Board](#)



# Energy - \$200 Question

What is work?

Click to see answer



# Energy - \$200 Answer

The energy needed to enact  
a force through some  
displacement

(class vote on if the group's answer is  
close enough to the definition)



# Energy - \$300 Question

What is mechanical advantage?

Click to see answer





# Energy - \$300 Answer

The ratio of output force to  
input force

[Click to return to Jeopardy Board](#)



## Energy - \$400 Question

An object initially has kinetic energy  $KE$ . If its mass is halved, what happens to its kinetic energy? Kinetic energy is

Click to see answer



Energy - \$400 Answer

Halved

[Click to return to Jeopardy Board](#)



# Energy - \$500 Question

What are all 9 types of energy?

Click to see answer



# Energy - \$500 Answer

Kinetic, Mechanical,  
Gravitational, Elastic, Heat,  
Chemical, Electrical,  
Nuclear, and Mass  
(all or nothing)

[Click to return to Jeopardy Board](#)



# Light - \$100 Question

What is color?

Click to see answer



# Light - \$100 Answer

Our brain's interpretations  
of light frequency

[Click to return to Jeopardy Board](#)



## Light - \$200 Question

Once inside the visible light spectrum on the electromagnetic spectrum, what is the range of color from left to right?

Click to see answer





# Light - \$200 Answer

Blue light ---> red light

[Click to return to Jeopardy Board](#)



# Light - \$300 Question

What is brightness and what's its unit of measurement?

Click to see answer



Light - \$300 Answer

The brain's interpretation of  
light intensity  
Unit: Lux

[Click to return to Jeopardy Board](#)



# Light - \$400 Question

Who was the first to come up with a definite speed of light?

Click to see answer



Light - \$400 Answer

Olaus Roemer

[Click to return to Jeopardy Board](#)



## Light - \$500 Question

What experiment did Mr. Fulmer have to recreate at Mt. Wilson?

Click to see answer



# Light - \$500 Answer

The Michelson Experiment  
(mirror thing measuring the  
speed of light)

[Click to return to Jeopardy Board](#)



# Waves + Sound - \$100 Question

What is almost always the source of a wave?

Click to see answer





# Waves + Sound - \$100 Answer

A vibration

[Click to return to Jeopardy Board](#)



# Waves + Sound - \$200 Question

What is the difference between transverse and longitudinal waves?

Click to see answer



# Waves + Sound - \$200 Answer

Transverse: motion of the medium is perpendicular to wave

Longitudinal: motion of the medium is in the same direction as the wave



# Waves + Sound - \$300 Question

What is timbre?

Click to see answer



# Waves + Sound - \$300 Answer

The character or quality of a musical sound or voice as distinct from its pitch and intensity  
(class vote)



# Waves + Sound - \$400 Question

What are the three main qualities of a wave, their definitions, and the units they are measured in?

Click to see answer



# Waves + Sound - \$400 Answer

Period: Time it takes for one back-and-forth cycle - seconds (s)

Wavelength: Distance between successive identical parts of the wave  
- meters (m)

Frequency: Number of vibrations in a given time - Hertz (Hz)

[Click to return to Jeopardy Board](#)



## Waves + Sound - \$500 Question

Where was the bridge from the video we watched where the wind hit its natural frequency, and what's that state's capital?

Click to see answer





# Waves + Sound - \$500 Answer

Bridge: Tacoma, WA  
Capital: Olympia, WA

[Click to return to Jeopardy Board](#)



# Stargazing - \$100 Question

Who came up with the heliocentric model?

Click to see answer



# Stargazing - \$100 Answer

Copernicus

[Click to return to Jeopardy Board](#)



# Stargazing - \$200 Question

What is parallax?

Click to see answer



# Stargazing - \$200 Answer

The apparent difference in position of an object when viewed from different positions



# Stargazing - \$300 Question

What causes twinkling?

Click to see answer



# Stargazing - \$300 Answer

Turbulent air in Earth's atmosphere,  
which distorts incoming light and  
makes it appear to shift position and  
brightness (class vote on if answer is  
close enough to definition)

[Click to return to Jeopardy Board](#)



# Stargazing - \$400 Question

What constellation contains  
Polaris and what  
constellation contains  
Betelgeuse?

Click to see answer





# Stargazing - \$400 Answer

Polaris: Ursa Minor  
Betelgeuse: Orion

[Click to return to Jeopardy Board](#)



# Stargazing - \$500 Question

What unit of distance is not great for running the Kessel run?

Click to see answer



# Stargazing - \$500 Answer

Parsec (3.26 light years)

[Click to return to Jeopardy Board](#)



# Solar System - \$100 Question

List all four of the inner planets and separately all five of the outer planets.

Click to see answer



# Solar System - \$100 Answer

Inner planets: Mercury,  
Venus, Earth, Mars

Outer planets: Jupiter,  
Saturn, Uranus, Neptune

[Click to return to Jeopardy Board](#)



# Solar System - \$200 Question

How much of the solar system's total mass does the sun make up?

Click to see answer



# Solar System - \$200 Answer

98% of the solar system's  
total mass!

[Click to return to Jeopardy Board](#)



# Solar System - \$300 Question

What is the outer core made out of?

Click to see answer





# Solar System - \$300 Answer

Liquid nickel and iron which  
conducts electricity

[Click to return to Jeopardy Board](#)



# Solar System - \$400 Question

What is the formal name of the water cycle?

Click to see answer



# Solar System - \$400 Answer

The Hydrologic Cycle

[Click to return to Jeopardy Board](#)



# Solar System - \$500 Question

What happened on Christmas  
of the Cosmic Calendar?

Click to see answer



# Solar System - \$500 Answer

Dinosaurs!!! RAWR


[Click to return to Jeopardy Board](#)



FINAL

# JEOPARDY!

Topic: Barely related

Click to see question 

# Final Jeopardy Question

If all of the chickens in the world were killed and made into KFC 8-piece buckets and stacked to the moon and back, how many trips could it make (there and back is 2). (The moon is 249,893 miles away)

Click to see answer



# Final Jeopardy Answer

6 trips

[Click to return to Jeopardy Board](#)





Click here to make your own copy of this template

# JEOPARDY!

## 5-topic Template

by Eric Curts

ericcurts@gmail.com - [www.ericcurts.com](http://www.ericcurts.com)

[twitter.com/ericcurts](https://twitter.com/ericcurts) - [plus.google.com/+EricCurts1](https://plus.google.com/+EricCurts1)

This slideshow is licensed under a Creative Commons Attribution Non-Commercial 3.0 United States license. For more information about this license see <http://creativecommons.org/licenses/by-nc/3.0/> (In short, you can copy, distribute, and adapt this work as long as you give proper attribution and do not charge for it.)

