JEJPARDY!

ADVANCED - FRESHMEN PHYSICS - SECOND SEMESTER EDITION

BY: KYRA AITELLI (TEMPLATE CREDITS AT END OF SLIDESHOW)

- 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

FINAL JEOPARDY

\$200

\$300

\$400

\$500

Energy	Light	Waves + Sound	Stargazing	Solar System
\$100	\$100	\$100	\$100	\$100

\$200

\$300

\$400

\$500

\$200

\$300

\$400

\$500

\$200

\$300

\$400

\$500

\$200

\$300

\$400

\$500

Energy - \$100 Question

What unit is energy measured in?

Energy - \$100 Answer

Joules (j)



Energy - \$200 Question

What is work?



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?

Energy - \$300 Answer

The ratio of output force to input force



Energy - \$400 Question

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



Energy - \$400 Answer

Halved



Energy - \$500 Question

What are all 9 types of energy?

Energy - \$500 Answer

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



Light - \$100 Question

What is color?



Light - \$100 Answer

Our brain's interpretations of light frequency



Light - \$200 Question

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



Light - \$200 Answer

Blue light ---> red light



Light - \$300 Question

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



Light - \$300 Answer

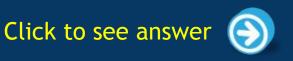
The brain's interpretation of light intensity

Unit: Lux



Light - \$400 Question

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



Light - \$400 Answer

Olaus Roemer



Light - \$500 Question

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



Light - \$500 Answer

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



Waves + Sound - \$100 Question

What is almost always the source of a wave?

Waves + Sound - \$100 Answer

A vibration



Waves + Sound - \$200 Question

What is the difference between transverse and longitudinal waves?

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?



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?



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)



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?



Waves + Sound - \$500 Answer

Bridge: Tacoma, WA Capital: Olympia, WA



Stargazing - \$100 Question

Who came up with the heliocentric model?

Stargazing - \$100 Answer

Copernicus



Stargazing - \$200 Question

What is parallax?



Stargazing - \$200 Answer

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



Stargazing - \$300 Question

What causes twinkling?



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)



Stargazing - \$400 Question

What constellation contains
Polaris and what
constellation contains
Betelgeuse?



Stargazing - \$400 Answer

Polaris: Ursa Minor Betelgeuse: Orion



Stargazing - \$500 Question

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



Stargazing - \$500 Answer

Parsec (3.26 light years)



Solar System - \$100 Question

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



Solar System - \$100 Answer

Inner planets: Mercury, Venus, Earth, Mars Outer planets: Jupiter, Saturn, Uranus, Neptune



Solar System - \$200 Question

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

Solar System - \$200 Answer

98% of the solar system's total mass!



Solar System - \$300 Question

What is the outer core made out of?

Solar System - \$300 Answer

Liquid nickel and iron which conducts electricity



Solar System - \$400 Question

What is the formal name of the water cycle?



Solar System - \$400 Answer

The Hydrologic Cycle



Solar System - \$500 Question

What happened on Christmas of the Cosmic Calendar?

Solar System - \$500 Answer

Dinosaurs!!! RAWR



FINAL JEGPARDJI

Topic: Barely related



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)



Final Jeopardy Answer

6 trips



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