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GVC 8.2 Physical Systems Review A public quiz for schools

Play Challenge

GVC 2

Copy and share this playable link https://play.kahoot.it/#/?quizId=1c546efb-246a-4258-91e2-5d816ab87c53

Questions (30)

Q1: What happens to the amount of kinetic energy as the mass **increases**?

kinetic energy increases



kinetic energy stays the same

Q2: KE= (mass x velocity²) x 0.5 What is KE for a car with a mass of 50 and a velocity of 1?



Q3: What example has the **highest** kinetic energy?



Q5: At what point does the boulder have its LEAST potential energy?



Q7: Where in the ball's path is its potential energy the **GREATEST**?



Q8: At which point in the pendulum swing is potential energy the **LOWEST**?

A		
♦ В		
e c		
D		

Q9: Which of the following examples would have the **highest** amount of kinetic energy?



Q10: According to the chart above, which substance has the LEAST friction?

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	Rubber Glove
	Rough Black Mat
	Smooth Black Mat
	Notebook
Q fı	211: What would happen to the kinetic energy of the cart as it moves rom "W" to "X"?
	Kinetic energy will increase
	Kinetic energy will remain constant
	Kinetic energy will decrease
	Kinetic energy has nothing to do with roller coasters
Q	212: How could you determine which surface has the LEAST friction when running cars down a ramp?
	MOST friction will require the MOST time.
	LEAST friction will require the MOST time.
	MOST friction will require the LEAST time.
	LEAST friction will require the LEAST time.

Q13: Which of the following examples shows the the **GREATEST** amount of potential energy?

A car on top of a hill that is 15 feet high.

A car on top of a hill that is 150 feet high.



Q16: What would wave A look like if you increased its amplitude but kept the wavelength the same?



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More
◆ Less
The same
Q18: As a bowling ball rolls down the lane toward the pins, what slows it down?
Friction
♦ Oil
e Metal
Water
Q19: How are wave B and C similar?
both have the same amplitude
both have the same wavelength
both have the same frequency
wave B has 2x the amplitude of wave C

Q20: Using a slinky, how would you make a transverse wave?

Push the slinky toward the other person quickly

Pull the slinky away from the other person

(/I/#) • Wave the slinky up and down

Hold the slinky still

Q21: Which of the diagrams represents absorption?

A A	
♦ В	
e c	
D	

Q22: Which of the following explains why a pencil looks bent when it is put in a cup of water?

the medium changes, bending the light waves by refraction

the medium changes and the rest of the pencil is absorbed

the medium stays the same, the light waves on the same path

water has made the pencil wet, making it look like it bent

Q23: Why does a leaf look green?

the green light wave is diffracted

• the green light wave is scattered

the green light wave is absorbed

the green light wave is reflected

(/l/#) Q24: Which of the diagrams represents diffraction?



Q25: If a light disappears in an object, we know that it is _____



Q26: Which of the following is a NOT a benefit of a walkie talkie?



Q27: Which of the following is NOT an advantage of DIGITAL?

(/l/#)		Cheaper recording equipment					
	٠	Sound quality is easily lost					
	 Easy to edit Easy to transport data over networks 						
	Q28	3: A signal is a CONTINUOUS signal.					
		Analog					
	٠	Digital					
	Q29	Hich of the following devices can hold more songs?					
		cassette tape					
	•	8 track player					
		mp3 Player					
		vinyl record					
	Q30): Which of the following waves has an ANALOG input?					

	А				
٠	В				