

9J Gravity and space...Gravity and circular motion

level 5
level 6
level 7

starter one

Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

Look at the four pictures below. Imagine there is a one pound coin on the top of each structure. Which coin has the most gravitational potential energy:

 Click mouse to reveal answer

	Eiffel tower	Liberty statue	Hoover Dam	London Eye
Diagram				
	Lowest	Lowest	Lowest	Lowest
	Second highest	Second highest	Second highest	Second lowest
	Third highest	Third highest	Third highest	Third highest
	Highest	Highest	Highest	Highest

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Answer:

	Eiffel tower	Liberty statue	Hoover Dam	London Eye
Diagram				
		Lowest		
				Second highest
			Third highest	
	Highest			

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starter two

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Look at the three pictures below: All the objects are in circular motion. Match the correct picture with the correct statement:

 Click mouse to reveal answer

	Roulette wheel	London Eye	Funfair Ferris Wheel
Diagram			
	The 36 London Eye pods are being thrown out whilst being kept in place by the steel superstructure.	People are thrown outwards whilst being kept in by the outer wire cage as the Ferris Wheel rotates.	The ball is being thrown out whilst being kept in by the roulette wheel. The ball follows a circular path.

Answer:

Roulette wheel



Diagram

London Eye



Funfair Ferris Wheel



Answer:

The ball is being thrown out whilst being kept in by the roulette wheel. The ball follows a circular path.

Answer:

The 36 London Eye pods are being thrown out whilst being kept in place by the steel superstructure.

Answer:

People are thrown outwards whilst being kept in by the outer wire cage as the Ferris Wheel rotates.

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starter three

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Look at the four pictures below. Decide which object is gaining or losing gravitational potential energy (GPE):

 Click mouse to reveal answer

	Example one	Example two	Example three	Example four
Diagram				
	<i>Going up the escalator.</i>	<i>Jumping off the diving board.</i>	<i>Water flowing towards the sea.</i>	<i>Airplane taking off.</i>
	Losing GPE	Losing GPE	Losing GPE	Losing GPE
	Gaining GPE	Gaining GPE	Gaining GPE	Gaining GPE

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Answer:

	Example one	Example two	Example three	Example four
Diagram				
	<i>Going up the escalator.</i>	<i>Jumping off the diving board.</i>	<i>Water flowing towards the sea.</i>	<i>Airplane taking off.</i>
		Losing GPE	Losing GPE	
	Gaining GPE			Gaining GPE