

9J Gravity and space...Rockets and space exploration

level 5
level 6
level 7

starter one



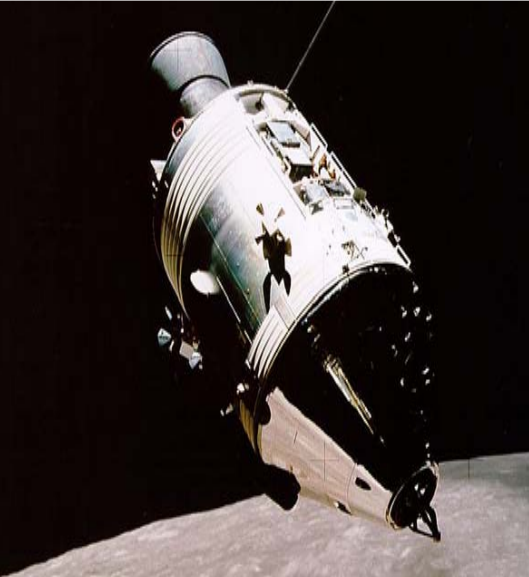
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Look at the three pictures below. Decide which picture represents which part of the Apollo Saturn rocket:



Click mouse to reveal answer

	Picture one	Picture two	Picture three
Diagram			
	Command module	Command module	Command module
	Launch tower	Launch tower	Launch tower
	Launch pad	Launch pad	Launch pad

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starter one

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Answer:

	Picture one	Picture two	Picture three
Diagram			
			Command module
		Launch tower	
	Launch pad		

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starter two




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Look at the three pictures below. They are of the shuttle at launch, during lift off and in orbit around Earth: Decide whether the two forces, gravity and up thrust are balanced or unbalanced:



Click mouse to reveal answer

	Launch	Take off	In orbit
Diagram	 A diagram showing a space shuttle on the launch pad. To the right of the image are two vertical arrows: a blue arrow pointing down labeled 'Gravity' and a red arrow pointing up labeled 'Up thrust'. The red arrow is significantly longer than the blue arrow.	 A diagram showing a space shuttle ascending vertically. To the right of the image are two vertical arrows: a blue arrow pointing down labeled 'Gravity' and a red arrow pointing up labeled 'Up thrust'. The red arrow is significantly longer than the blue arrow.	 A diagram showing a space shuttle in orbit above Earth's cloud-covered surface. To the right of the image are two vertical arrows: a blue arrow pointing down labeled 'Gravity' and a red arrow pointing up labeled 'Up thrust'. The two arrows are of equal length.
	Balanced	Balanced	Balanced
	Unbalanced	Unbalanced	Unbalanced

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level 6
level 7

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Answer:

	Launch	Take off	In orbit
Diagram	 <p>A photograph of the Space Shuttle Columbia on the launch pad. The orbiter is attached to the external tank and solid rocket boosters. A large plume of fire and white smoke is visible at the base of the shuttle, indicating the start of the launch.</p>	 <p>A photograph of the Space Shuttle Columbia ascending vertically. The orbiter is attached to the external tank and solid rocket boosters. A large plume of fire and white smoke is visible at the base of the shuttle, indicating the start of the launch.</p>	 <p>A photograph of the Space Shuttle Columbia in orbit above the Earth's surface. The orbiter is attached to the external tank and solid rocket boosters. The Earth's surface is visible below, showing clouds and the horizon.</p>
	 <p>A diagram showing two vertical arrows. A blue arrow points downwards and is labeled "Gravity". A red arrow points upwards and is labeled "Up thrust".</p>	 <p>A diagram showing two vertical arrows. A blue arrow points downwards and is labeled "Gravity". A red arrow points upwards and is labeled "Up thrust".</p>	 <p>A diagram showing two vertical arrows. A blue arrow points downwards and is labeled "Gravity". A red arrow points upwards and is labeled "Up thrust".</p>
	Balanced	Unbalanced	Balanced

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starter three

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Look at the four pictures and decide which rocket launched which mission:



Click mouse to reveal answer

	Rocket one	Rocket two	Rocket three	Rocket four
Diagram				
	Space Shuttle	Space Shuttle	Space Shuttle	Space Shuttle
	Deep Impact	Deep Impact	Deep Impact	Deep Impact
	Apollo missions	Apollo missions	Apollo missions	Apollo missions
	Mars pathfinder	Mars pathfinder	Mars pathfinder	Mars pathfinder

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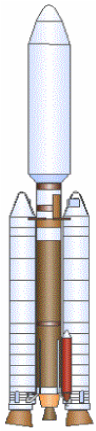
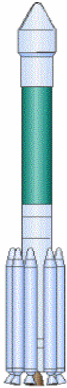
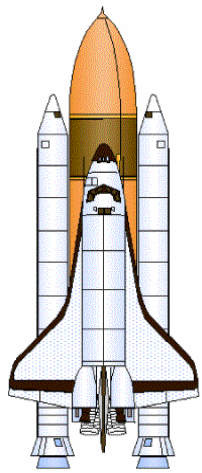
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level 6
level 7

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Answer:

	Rocket one	Rocket two	Rocket three	Rocket four
Diagram				
				Space Shuttle
			Deep Impact	
	Apollo missions			
		Mars pathfinder		