

Jeopardy

















Jeopardy Categories

Space	Programming and Logic	Math and Physics	Zero-G IDE	SPHERES
Question 1	Question 1	Question 1	Question 1	Question 1
Question 2	Question 2	Question 2	Question 2	Question 2
Question 3	Question 3	Question 3	Question 3	Question 3
Question 4	Question 4	Question 4	Question 4	Question 4
Question 5	Question 5	Question 5	Question 5	Question 5

















The mission of this US government space agency is to understand Earth's placement in the universe and to explore space.









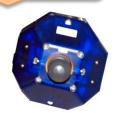








What is the "National Aeronautics and Space Administration"?



















This low Earth orbit satellite has astronauts living on it! It has housed people from not one, but 14 different countries.









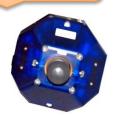








What is the "International Space Station (ISS)"?



















With over 100 missions, this recently ended program ferried astronauts to the International Space Station and beyond.









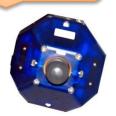








What is the "Space Shuttle Program"?



















In 1969, this mission was "one small step for man, one giant leap for mankind".







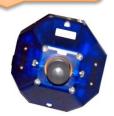








What is the "first landing/man on the moon"?



















This next destination for human exploration includes plans to establish a permanent human settlement.











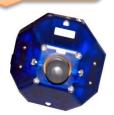








What is "Mars"?



















Programming Question #1

This primitive data type possesses the ability to store decimal numbers, also known as floating point numbers. Hint, it is not an int.











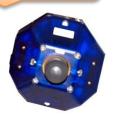






Programming Answer #1

What is a "float"?



















Programming Question #2

Conditional statements are a way to give instructions about when to do something. What is an example of this conditional statement?











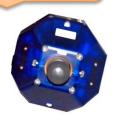






Programming Answer #2

What is an "if-then" statement?



















Programming Question #3

This word, synonymous with "code" also means a list of instructions or directions for a computer.











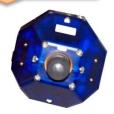






Programming Answer #3

What is a "program"?



















Programming Question #4

This data structure holds a row of elements that store information. Some examples include myZRState[12], temp[3], position[3].











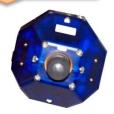






Programming Answer #4

What is an "array"?

















Programming Question #5

One of the ways you can make comparisons in code is with

"!=". What does != mean?











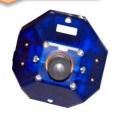






Programming Answer #5

What is "not equal to"?



















Math and Physics Question #1

This law of Physics states that every action has an equal and opposite reaction.









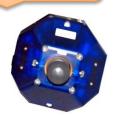






Math and Physics Answer #1

What is "Newton's 3rd Law"?



















Math and Physics Question #2

This commonly used entity in mathematics possesses magnitude and direction.











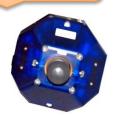






Math and Physics Answer #2

What is a "vector"?



















Math and Physics Question #3

This word describes the amount of matter in an object.











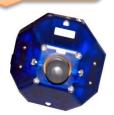






Math and Physics Answer #3

What is "mass"?



















Math and Physics Question #4

The mass of an elephant that is six tons on Earth is tons on the moon.











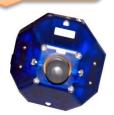






Math and Physics Answer #4

What is "six"?



















Math and Physics Question #5

This Law states that an object in motion stays in motion unless acted upon by an outside force.











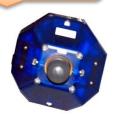






Math and Physics Answer #5

What is "Newton's 1st Law"?



















Zero-G IDE Question #1

The Zero Robotics website has a special software application, known as the ZR IDE, that allows you to program code. ZR IDE is short for....?











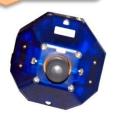






Zero-G IDE Answer #1

What is "Zero Robotics Integrated Development Environment"?



















Zero-G IDE Question #2

This API function allows a satellite to point in a certain direction.







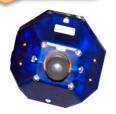








What is "setAttitudeTarget"?



















Zero-G IDE Question #3

Calling this API function returns information about the position and orientation of the opponent satellite.











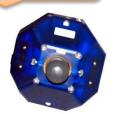








What is "getOtherZRState"?



















Zero-G IDE Question #4

This command moves a SPHERE to a specific coordinate.









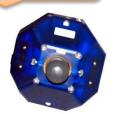








What is "setPositionTarget"?



















Zero-G IDE Question #5

When sharing code with your team, this button must be pressed to save the current revision of your program.











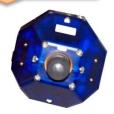






Zero-G IDE Answer #5

What is "Commit"?



















This word, synonymous with "mini" describes SPHERES, which are designed to work in groups and clusters to perform the function of a large, single satellite.









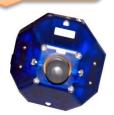






SPHERES Answer #1

What is "micro"?



















SPHERES, as with many other types of robots need power and fuel to operate. Type AA power SPHERES and 15 the fuel used.









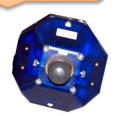








What are "batteries" and "carbon dioxide"?



















SPHERES is an acronym that stands for a string of seven words describing its functionality. What are these words?









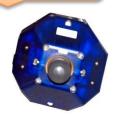








What is "Synchronized Position Hold Engage and Reorient Experimental Satellites"?



















While on the ISS, SPHERES essentially move without friction (true or false).











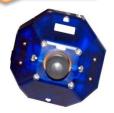






SPHERES Answer #4

What is "true"?



















This object controls the movement of the SPHERES, allowing SPHERES to move in all directions on a grid. There are 12 of these objects on a SPHERE.

















SPHERES Answer #5

What are "thrusters"?

