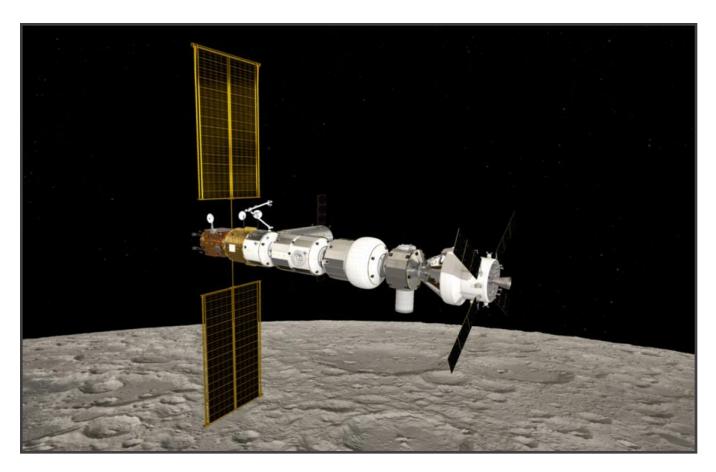
Spacegate Station Episode 5 Resources



Resource Contents

- Review of Coding Work Sheet
- Coding Pieces
- Race to the Moon Worksheet
- Write the Code Worksheet
- Next Generation Sunshine State Standards (Florida)

This program was designed specifically to be used as part of science subject instruction, science remediation and science enrichment. The determination of the appropriate science standards that correlate to this program was established by a board of Science Specialists and teachers in Duval County Public Schools, Jacksonville, FL.

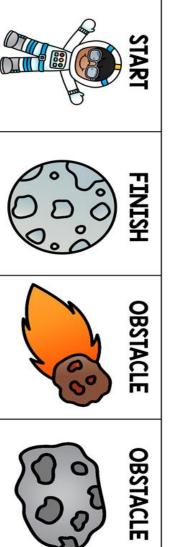
Spacegate Station Episode 5 - The Power of Programing

<u>Introduction</u>

Word Bank

Actions	Computer program	Larger prob	olems P	rograming
	is how we commu	unicate with comp	uters to get the	m to do things
or us.				
When we create a computer to pro	ocess.	what we do is w	rite a group of	instructions for
	s are used by the comp problem, or, to make	= ' -		
ter Instruction	<u>S</u>			
	Wo	rd Bank		
Algorithm	Decision	Repetition	Sequence	2
What you have do	one was describe the p	process in a	of ordered	steps which
۱s ا	ike what type of breac	d and cheese you w	vanted.	
is l	ike adding the mustar	d to the bread.		
	aking the sandwich usi		procedure or o	rdered
ter Program				
	Wor	d Bank		
	Coding Instru	uctions Progran	n	
	alledinto language it can u		ss of translating	instructions
Δ	may contain many a	algorithms to help	the computer of	do what we

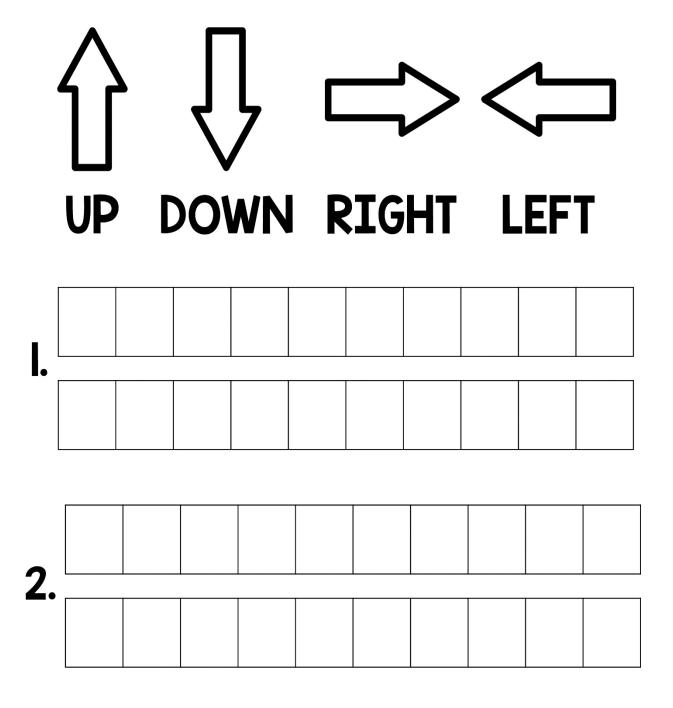
Coding Pieces



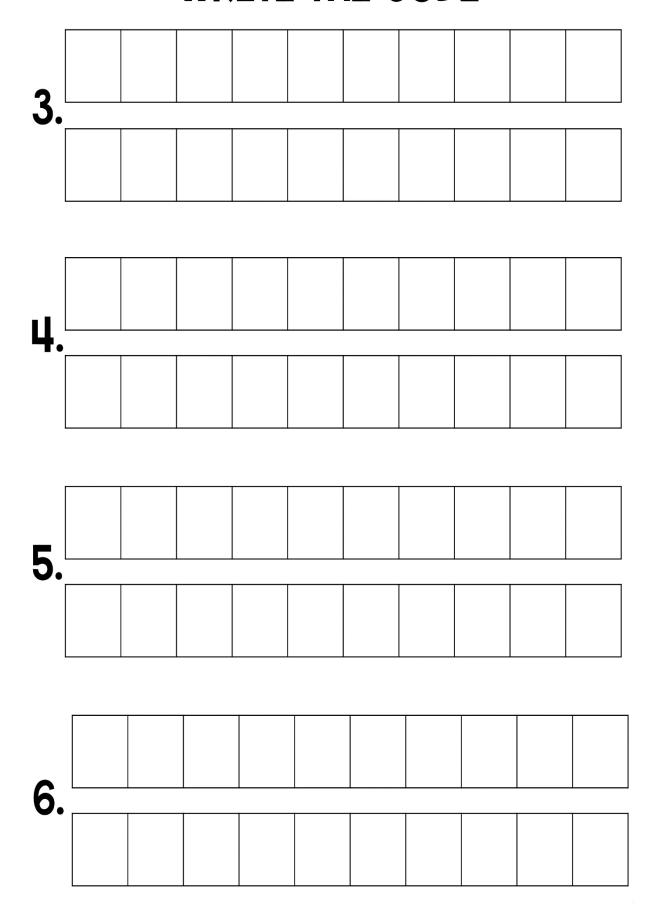
Race to the Moon Directions: Code a path for the astronaut to get to the moon.

WRITE THE CODE

Directions: Write the code that shows the steps needed to get the astronaut to the moon. Then move the rocket ships to come up with a different coding path.



WRITE THE CODE



Episode 5 – The Power of Programing

Next Generation Sunshine State Standards (Florida)

- **SC.4.N.1.2** Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.
- **SC.5.N.1.1** Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.
- **SC.6.N.1.1** Define a problem from the sixth grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.
- **SC.6.N.1.4** Discuss, compare, and negotiate methods used, results obtained, and explanations among groups of students conducting the same investigation.
- **SC.6.N.1.5** Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence.
- SC.6.N.3.4 Identify the role of models in the context of the sixth grade science benchmarks.
- **SC.7.N.1.1** Define a problem from the seventh grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions
- **SC.7.N.3.2** Identify the benefits and limitations of the use of scientific models.
- **SC.8.N.1.1** Define a problem from the eighth grade curriculum using appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.
- **SC.8.N.3.1** Select models useful in relating the results of their own investigations.