



Cabot Public Schools

2019-2020

Alternative Methods of Instruction

Name: _____ Date: _____

3rd Grade AMI Work #7

*Your child will have 5 days to complete and return this to his/her teacher to get credit for the day.
If you need more time, please let the teacher know.*

THEME: Outer Space

What's It Like in Space?

In 1969, a group of American astronauts visited the moon on a rocket ship called Apollo 11. Since then, many more astronauts have traveled in space. Scientists have learned that there are many differences between Earth and space. One of the biggest differences has to do with gravity. Gravity is a force of attraction that pulls things toward one another. The force of gravity on Earth is pretty strong. Even the best jumpers can only jump a few feet off the ground. (Try it and see!)

Want to jump high? You will have to fight against gravity.

Two of the American astronauts who visited the moon were Buzz Aldrin and Neil Armstrong. When they were on the moon, they were easily able to jump up high. They didn't come down quickly either. Instead, they seemed to float down slowly. That was because the force of gravity on the moon is not as strong as on Earth. The moon is not as big as Earth. So the force of gravity is not as strong on the moon.

If you think that is cool, wait until you read what happens out in space, away from the moon or planets. Out in space, astronauts do not feel the effects of gravity. They and their spaceship are moving freely in space. Since the astronaut and spaceship are moving freely together, the astronauts look and feel as if they are floating!

This astronaut is inside a spaceship in space, where the force of gravity is less.

Up in space, lots of things are different. You can do a flip and not worry about whether you will make it all the way around before you come down!

When you are free of the effects of gravity, it is easier to do flips and cartwheels.

Eating is different in space, too. I'll bet when you eat lunch at school, your food stays where you put it. If you set it on a table, it stays there until you pick it up. The force of gravity holds it down. But if you were up in space, you and your food would be moving freely together. If you let go of it, your food might drift away!

There are other differences in space besides less gravity. Did you know that the astronauts on the moon had to carry tanks of air for breathing? That's because another way outer space is different from Earth is that there is no air or oxygen at all in outer space. Look again at the image of the astronauts inside the spaceship. The astronauts are not carrying tanks of air. That's because oxygen is being pumped inside the spaceship.

Since there is no air in space, you also do not hear sounds in outer space. It is also very cold in space. The astronauts must train many months before going into space so they know what to expect. Do you think you would like to go into space someday?

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1. Where are the effects of gravity stronger, on Earth or in space?
2. Describe an example from the text that shows how gravity is different in space than on Earth.
3. There is no air in outer space. How does this affect people who go to outer space? Support your answer with details from the text.
4. What is the main idea of this text?

MATH: Solve the word problems below and justify your answer.

1. Mark arrived at the space museum at 3:15. If he toured the first exhibit for 35 minutes, what time will he be finished in the first exhibit? Tell how you solved it.
2. Jeremiah went to the fair. His mom gave him a bag of quarters to buy tickets for the rides. He bought 9 tickets. He used 3 quarters for each ticket. When it was time to go home, Jeremiah still had 6 quarters left. How many quarters were in the bag when he started playing? Tell how you solved the problem.
3. The soda machine in the lobby of the hotel costs 5 quarters for each can of soda. How much money would it cost to buy 8 cans of soda? Explain how you solved it.
4. Roger wanted to earn money by mowing lawns in his neighborhood. He mowed 18 lawns during the spring and summer. If he mowed 8 lawns in the spring, how many lawns did he mow in the summer? He charged \$9 for each lawn he mowed. How much money did he make in the summer? Justify your answer.

Activity:

Today is art!

Draw a picture of something in outer space. It is up to you what you want to draw and what medium you want to use. It can be paint, crayons, or any material you have, just have fun!