



## INFORMATIVE #1

6th Grade Informational Responses - Journeys Reading Adventure pp. 4-9

**Prompt:** Using the resources provided, write a 2-4 paragraph essay describing the problem of space junk and solutions or possible solutions that are currently in use or have been proposed to deal with the problem.

There are lots of problems in space and this is how to fix it there's A lot of junk in space and some of it is falling into our world and could damage a lot of things.the next problem is it can hit into space shuttles and can damage them and also break them so they go out of control and go way outer space.It can crash in to the earth and break something this is not good we need to fix these problems.

Some of the solutions are that you build a machine that can grab it so it doesn't brake anythang.They have a way to track all of it and they could send a rocket ship that has a laser on it to shot it down.Thes are some solution for for the problem.

These are some good ideas of how to fix space even more.

Anchor Text: Journeys Reading Adventure pp. 4-9

JSD Informative/Explanatory Rubric Evaluation:

Introduction		Body				Conclusion	Conventions
Introduce topic (W.6.2.a)	Establish and maintain a formal style (W.6.2.e)	Topic development (W.6.2.b)	Grouping Information (W.6.2.a)	Transitions (W.6.2.c)	Domain Specific Vocabulary (W.6.2.d)	Conclusion (W.6.2.f)	Language Conventions (L.6.2)

## INFORMATIVE #2

6th Grade Informational Responses- Journeys Reading Adventure pp. 4-9

**Prompt:** Using the resources provided, write a 2-4 paragraph essay describing the problem of space junk and solutions or possible solutions that are currently in use or have been proposed to deal with the problem.

Space junk has been a problem since we first tried to send people and satellites into space. Here are some of the solutions to this problem that we have had since 1957 when we launched the first satellite.

Some of our solutions from the U.S. government has ideas that can work really well like making a machine big enough to take small amounts of trash at a time and melt it. Another idea is that we can make a laser that will zap the trash. Some solutions can be consequently dangerous like sending all of the trash to the sun which might cause heat waves that can be dangerous to our planet.

Ever since 1957 there has been trash orbiting our planet. Even now we are making machines to get rid of this trash problem. So one of the solutions are a machine to take and destroy the trash

Nice intro to the topic.

No elaboration

Pros and cons about different options in one paragraph is problematic for understanding.

Repetitive conclusion

Weak last sentence. Is it the BEST solution?

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3	2	2	2	2	3	2	2

## INFORMATIVE #2

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### INFORMATIVE #3

6th Grade Responses- Journeys Reading Adventure pp. 4-9

**Prompt:** Using the resources provided, write a 2-4 paragraph essay describing the problem of space junk and solutions or possible solutions that are currently in use or have been proposed to deal with the problem.

<p>Over the years the amount of junk orbiting the earth has been increasing in an alarming rate. This is called space junk. It may not seem like that bad off a problem but you are very wrong. There are over 150 million pieces off space junk. Ranging from 1 millimeter all the way to 4 feet across. And their travel at speeds up too 1700 mph. If one off those pieces of trash where to hit a satellite that would cause a lot of damage. Because those satellites provide internet, Tv, Weather forecast, phone service,</p> <p>When space junk collides with another space junk it creates multiple fragments giving us more space junk. And sometimes this space junk get knocked out of orbit and falls to earth. Hitting the pacific ocean, populated areas, desserts. And this has happened before. For example, in africa people noticed this big piece of metal that had fallen from the sky. It was one off the pieces of space junk orbiting the earth. That piece of space junk could have hit an populated area. That could kill people and injure people.</p> <p>Well what do we do about it one off the ideas was to shoot an very powerful laser at the space junk? Another solution, would be too send an machine in space that can grad he pieces off junk. We will start shooting lasers at the junk in space by 2020.</p> <p>Space junk has been growing rapidly and we must take action soon.</p>	<p>Presents the topic and frames the problem.</p> <p>Reasons why this is an issue for everyone</p> <p>The problems continue</p> <p>Solutions</p> <p>Urgent concluding statement.</p>
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3	3	3	2	2	3	3	2

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Well what do we do about it one off the ideas was to shoot an very powerful laser at the space junk? Another solution, would be too send an machine in space that can grad he pieces off junk. We will start shooting lasers at the junk in space by 2020.

Space junk has been growing rapidly and we must take action soon.

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## INFORMATIVE #4

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**Prompt:** Using the resources provided, write a 2-4 paragraph essay describing the problem of space junk and solutions or possible solutions that are currently in use or have been proposed to deal with the problem.

Have you ever wondered what it looks like in space? Beautiful stars and a couple of satellites here and there? Nope! There's trash everywhere orbiting the earth at speeds of 17,000 MPH crashing into other satellites and exploding into even smaller pieces. This problem has been known about for around 40 years since humans first started throwing things into space, but has only gotten worse. The world needs to be aware of this problem and assess it with probable solutions.

This problem is serious, there are an estimated 150 million tiny man-made objects orbiting the earth. In order for these small pieces of trash to stay in orbit they have to travel around the earth at 17,000 miles per hour which can result in terrible damage to satellites, and even to explosions which make even more tiny objects left to only make other things explode. In 1993 there was an estimate of 8,000 man-made objects bigger than 4.5 inches. This is big enough to instantly destroy satellites and if that happens, millions of people's cell-phone service, GPS, or weather satellites will not be working. This problem has been addressed and in Darmstadt, Germany the biggest gathering for space junk problems will be held.

There have been many solutions that have been proposed. One is to destroy the space junk with a powerful laser or to bring it down with a giant robot arm. Another solution suggested was to use a sticky adhesive pad to stick to junk and bring it down which was inspired by geckos. Geckos stick to even the smoothest surfaces by using tiny hairs on the bottom of their toes which creates friction-like force which rubs together and sticks to the surface. NASA studied satellites and believe if broken apart they could create a large amount of dangerous space junk. However, NASA concluded that if they took down just 5 of these non-working satellites starting in 2020, the problem would not get worse.

Finally, space junk is a serious problem! Man-made objects are destroying satellites and creating space junk that can be dangerous to people on earth. Though there are solutions that are beginning to be put into action. Finally, this could result in the end of the space age, if we don't address this problem and clean up space. Are you going to let our way of life fall to pieces because of a softball sized piece of space-age debris?

Strong introduction that lays out the problem from the prompt.

Quotes effectively from the text.

States how this could affect all of us.

Strong conclusion that puts the onus back on the reader to do something.

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## INFORMATIVE #4

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This problem is serious, there are an estimated 150 million tiny man-made objects orbiting the earth. In order for these small pieces of trash to stay in orbit they have to travel around the earth at 17,000 miles per hour which can result in terrible damage to satellites, and even to explosions which make even more tiny objects left to only explode other things. In 1993 there was an estimate of 8,000 man-made objects bigger than 4.5 inches. This is big enough to instantly destroy satellites and if that happens, millions of people's cell-phone service, GPS, or weather satellites will not be working. This problem has been addressed and in Darmstadt, Germany the biggest gathering for space junk problems will be held.

Some of the solutions that have been proposed is to destroy the space junk with a powerful laser or to bring it down with a giant robot arm. Another solution suggest was to use a sticky adhesive pad to stick to junk and bring it down. A Stanford-JPL project was inspired by geckos and how they stick to even the smoothest surfaces by using tiny hairs on the bottom of their toes which creates friction-like force which rubs together and sticks to the surface. NASA studied satellites and believe if broken apart they could create a large amount of dangerous space junk. NASA concluded that if they took down 5 of these non-working satellites starting in 2020 that the problem would not get worse.

Consequently, this is a serious problem! Man-made objects are destroying satellites and creating space junk that can be dangerous to people on earth. Though there are solutions that are beginning to be put into action. Finally, this could result is the end of the space age, if we don't address this problem and clean up space. Are you going to let our way of life fall to pieces because of a softball sized piece of space-age debris?

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