**Spacecraft Classification Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***Part 1***

Use the following resources to define the terms below:

<https://www.nasa.gov/audience/forstudents/postsecondary/features/F_Spacecraft_Classification.html>

<https://www.nasa.gov/audience/forstudents/5-8/features/nasa-knows/what-is-a-satellite-58.html>

<https://www.dkfindout.com/us/space/space-shuttle/shuttle-orbiter/>

<https://www.youtube.com/watch?v=obIBySxKmWQ>

<http://coolcosmos.ipac.caltech.edu/ask/285-What-is-a-space-probe->

<https://www.space.com/16748-international-space-station.html>

|  |  |  |
| --- | --- | --- |
| **Term** | **Definition/Description** | **Purpose/Example** |
| Flyby |  |  |
| Orbiter |  |  |
| Lander or Rover |  |  |
| Probe |  |  |
| International Space Station (ISS) |  |  |
| Satellite |  |  |

**Space Exploration Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***Part 2***

Read the following article. Answer the questions below.

<https://www.classzone.com/science_book/mls_grade7_FL/679_683.pdf>

1. Why are some powerful telescopes built on mountaintops in rural areas?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Why are some powerful telescopes built in space?

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1. Why might astronomers use different types of telescopes to obtain images of the same object in space?

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1. What are two tools that help us study and explore space?

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***Part 3***

Use the links below to complete the timeline (additional sheet of paper) to summarize the historic events that have contributed to major space discoveries.

<http://www.seasky.org/space-exploration/space-timeline-1600-1960.html>

<https://www.nasa.gov/centers/glenn/about/history/timeline.html>

[https://phys.org/news/2012-08-key-dates-history-space-exploration.htm](https://phys.org/news/2012-08-key-dates-history-space-exploration.html)