

Name _____

EXPLORE THE SOLAR SYSTEM

There is a lot that scientists have learned about objects in our solar system—and a lot they still don't know! Follow the prompts below to guide your research about one object in our solar system.

Part 1: Brainstorm and Plan

1. Choose a research topic. You can use one of the options listed or select your own.

Jupiter Comet 238P/Read Eris (dwarf planet) Other: _____

2. If you are working with a partner, assign research tasks for each person to complete.

Part 2: Research

Record your notes and sources in the following chart, or make a similar one on a separate sheet..

Question	Notes	Source
How far away from Earth is this object?		
What size is this object relative to Earth's size?		
How does gravity affect this object?		
What questions about this object will the James Webb Space Telescope explore?		
What is another question about this object that you would like to explore?		

Part 3: Share and Reflect

Choose a way to share your findings with the class:



podcast



blog post

multimedia
presentation

infographic

If you worked with a partner, how did teamwork help you to complete this project?
What strengths did each partner bring to the team?

Name _____

RESEARCH EXOPLANET SYSTEMS

Exoplanets are planets outside our Solar System. There is a lot that scientists have uncovered about exoplanet systems—and a lot they still don't know! Use the prompts below to conduct your own research.

Part 1: Brainstorm and Plan

1. Choose an exoplanet system to research. You can use one of the options listed or select your own.

- TRAPPIST-1 Kepler-452 55 Cancri Other:

2. If you are working with a partner, assign research tasks for each person to complete.

Part 2: Research

Record your notes and sources in the following chart, or make a similar one on a separate sheet.

Question	Notes	Source
How far away, in lightyears, is this exoplanet system?		
Have scientists estimated how old it is?		
Choose one of its exoplanets. How does it compare to Earth?		
What questions about these exoplanets could NASA's Webb Space Telescope explore?		
What is another question about this exoplanet system that you would like to explore?		

Part 3: Share and Reflect

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infographic

If you worked with a partner, how did teamwork help you to complete this project?