



SPACE TOUR VR

OBJECTIVE

Students will experience a virtual reality experience based on the solar system and the moons that construct it. They will gain knowledge on the mass, average temperature, orbital period, distance from the sun, diameter, and the amount of moons for every planet. They will then apply this knowledge while taking a test.

MATERIALS

- Oculus Rift or Rift S
- Oculus Touch controllers
- Student Activity Packet
- Devices (ex. Laptops, desktops, phones, etc.)
- Printed copies of attached files
- Space Tour VR Kahoot:
<https://create.kahoot.it/share/space-tour-vr/858a7ec0-63db-49ec-ba12-9d21bb198f68>
- Space Tour VR Quizlet:
https://quizlet.com/_6dpoyw

SYNOPSIS

Space Tour VR is an experience in which the user navigates and explores our Solar System. All eight planets are included and you can navigate freely amongst them. The app provides information regarding planets, nearby moons, and how they compare to Earth. Other tabs feature miscellaneous information about each planet. In this activity, students will be navigating throughout the solar system to the different planets and moons and gathering information about each one.

The activity includes a student packet outlining the questions they are to answer along their exploration. There is also a Quizlet link and a Kahoot link to help the students reinforce the material covered.

TIMELINE

This activity is designed to be completed in 3-45 minute sessions, including the Quizlet and Kahoot activities.

OPTIONAL REINFORCEMENT ACTIVITIES

The links to the left

- Quizlet for review
- Kahoot for class game play





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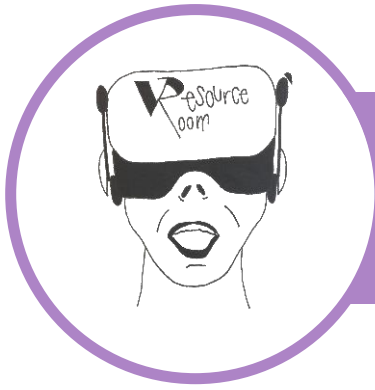
Days 1-2

- Pair Students in groups of two
- Copy and distribute the student worksheet that accompanies the VR experience
- Discuss some of the ideas on the worksheet, or what they may already know
- Each student will go through the entire system, and fill out the guided worksheet that accompanies
- This worksheet should not take much longer than a day or two. Use any extra time to explain the next part in the assignment or assessment criteria.

Day 3

- Students will use the Quizlet to study and prepare for the Kahoot game.





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STANDARDS

Earth Systems (9-12)

- Identify planets in our solar system and their basic characteristics.
- Describe the earth's place in the solar system that includes the sun (a star), planets, and many moons
- Recognize that the universe contains many billions of galaxies and that each galaxy contains many billions of stars.
- Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.
- Describe the inner and outer solar system, including the sun and eight planets

