

Big Idea 5 Earth and Space

Google Earth World Tour

Description

Google Earth World Tour allows students to view Earth and some of the amazing landforms that make it unique.

Slide Titles

- 1-Planet Earth
- 2-North Atlantic Ocean
- 3-Mount Everest
- 4-Canyonlands National Park
- 5-Lake Zell
- 6- Florance
- 7- Christ the Redeemer Statue
- 8-Earth, Texas

Google Questions

Questions cover a wide variety of content area. (Landmarks, Landforms, Information about the planet earth, etc.)
Best use for space is slide one.

Standards Based Questions:

- What is unique about Earth?
- Explain Gravity
- What is Earth's place in the Solar System?
- Explain Day and Night

Books on Big Universe:

Primary:

- The Earth: Destination Space
- Space Voyager Earth
- Earth our home in the Solar System

Intermediate:

- Earth
- Our Earth
- Earth's Cycles
- The Earth

Exploring the Solar System (AR and VR)

Description

Lesson provides a 3D view of planets.

Slide Titles

- 1-Sun
- 2-Earth
- 3-Inner Planets
- 4-Moon
- 5-Outer Planets
- 6-Asteroid Belt
- 7-Dwarf Planets

Google Questions

No Questions available. Descriptions are available for each slide.

Standards Based Questions:

- How much larger is the Sun than the Earth?
- What type of Energy does the Sun provide?
- How does the sun help plants and animals?
- What are the four inner planets?
- What are the four outer planets?
- What is the difference between inner and outer planets?
- What are the phases of the moon?

Books on Big Universe:

Primary:

- Solar Systems
- The Sun: Destination Space
- The Earth: Destination Space
- Planets
- Rocky Planets
- Moon

Intermediate:

- Our Solar System
- The Solar System
- Earth
- Jupiter
- Mars
- Neptune
- Uranus
- Venus
- Mercury
- Saturn

Solar System

Description

Covers the formation of the Solar System

Slide Titles

- 1-What is the Solar System?
- 2-The Milky Way Galaxy
- 3-Solar System Formation
- 4-Solar System Formation part 2
- 5- Solar System Orbits
- 6-Planets in the Solar System
- 7-The Planets in Perspective
- 8-Asteroid Belt, Kuiper Belt, and the Oort Cloud

Google Questions

Overview of planets, orbits, makeup of the solar system, and Solar Energy. Great use for vocabulary and visual.

Standards Based Questions:

- What type of Energy does the Sun provide?
- How does the sun help plants and animals?
- What are the four inner planets? What are the four outer planets?
- Name characteristics of the inner and outer planets
- What are galaxies?
- Define orbit and rotation
- How are stars classified?
- Why do some stars look larger than others?

Books on Big Universe:

Primary:

- Solar Systems
- The Sun: Destination Space
- The Earth: Destination Space
- Planets
- Rocky Planets
- Moon

Intermediate:

- Our Solar System
- The Solar System
- Solar Systems
- Earth
- Jupiter
- Mars
- Neptune
- Uranus
- Venus
- Mercury
- Saturn

To the Moon with the Google Lunar XPRIZE

Description

To the Moon covers exploration of the moon.

Slide Titles

- 1-The Blue Dot
- 2-History Written in the Moon
- 3-First Explorers to the Moon
- 4-First Humans on the Moon
- 5-Exploring the Moon
- 6-The Last Step
- 7-The New Global Space Race
- 8-The Future of the Moon

Google Questions

Overview of the moon, Earth's Atmosphere, Craters, and the exploration of the moon. Light reflection is in slide one. Great use for vocabulary and visual.

Standards Based Questions:

- What are the phases of the moon?
- When can we see the moon?
- Why does the moon orbit the Earth?
- What causes day and night?
- What tool can we use to view the moon better?

Books on Big Universe:

Primary:

- Moon
- Moons
- The Moon

Intermediate:

- Moons
- The Moon
- The Moon our Neighbor in Space
- Earth and Moon
- Earth's Moon

Fly with NASA's Juno Mission to Jupiter

Description

Slide Titles

- 1-Juno on the Way to Jupiter
- 2- Soaring over Jupiter
- 3-Juno in the Regular and X-Ray Vision
- 4-A look inside the Juno Space Craft

Google Questions

Questions cover the makeup of Jupiter, distance from Earth, how the Sun effects the planet, and the mission spacecraft.

International Space Station

Description

International Space Station covers various modules that are in space. Explains the research and allows students to view space station.

Slide Titles

- 1-Zvezda Service Module
- 2-Japanese Experiment Module
- 3-Columbus Laboratory
- 4-Node 2
- 5-Destiny
- 6-Node 1
- 7-Zarya Functional Cargo Block
- 8-Node 3

Google Questions

Questions cover how astronauts stay healthy, what food should be brought to space, how astronauts stay busy and what they need to bring from home.

Extra VR Lessons with Space Content

- Tour the International Space Station
- The Space Station Museum
- Discover the Space Race
- The Space Race
- SpaceX
- From Assembly to Launch: A Rocket's Journey