

SpaceOLÉ • Voyager Challenge Cards

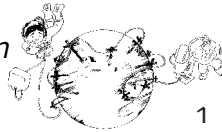
SpaceOLÉ Voyager Meteorologist

Challenge Question

The earth has a wide variety of climates, such as desert, tropical, and arctic climates. Describe the climate on your planet/moon.

National Science Education Standards

- D1: Energy in the earth system*
- D2: Geochemical cycles*
- D3: Origin and evolution of the earth system*
- D4: Origin and evolution of the universe*



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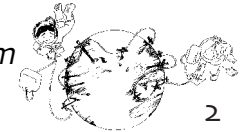
SpaceOLÉ Voyager Meteorologist

Challenge Question

The earth has an atmosphere, which is mainly composed of nitrogen and is divided into various layers. Describe the composition of your planet's/moon's atmosphere.

National Science Education Standards

- D1: Energy in the earth system*
- D2: Geochemical cycles*
- D3: Origin and evolution of the earth system*
- D4: Origin and evolution of the universe*



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Challenge Question

Temperatures on earth can be very different between geologic locations, such as the difference between the temperatures at the equator and the poles. Describe the temperature ranges on your planet/moon at various locations.

National Science Education Standards

- D1: Energy in the earth system*
- D2: Geochemical cycles*
- D3: Origin and evolution of the earth system*
- D4: Origin and evolution of the universe*



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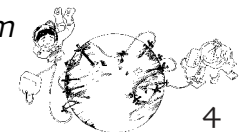
SpaceOLÉ Voyager Meteorologist

Challenge Question

Weather phenomena such as tornadoes and hurricanes often occur on earth. What weather-related phenomena occur on your planet/moon?

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- D4: Origin and evolution of the universe*



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Challenge Question

On earth clouds are made by condensation of water vapor over a condensation nuclei. On other planets clouds may not be made of water. Describe the composition of the clouds on your planet moon.

National Science Education Standards

D1: Energy in the earth system

D3: Origin and evolution of the earth system

D4: Origin and evolution of the universe



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Challenge Question

Uneven heating of the earth causes a system of air currents and winds to be formed. Discover whether your planet/moon has windy conditions, and determine what causes them.

National Science Education Standards

D1: Energy in the earth system

D3: Origin and evolution of the earth system

D4: Origin and evolution of the universe



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Challenge Question

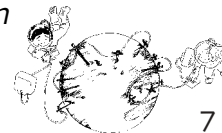
Atmospheric pressure at sea level is one atmosphere, and increases dramatically underneath the earth's deepest oceans. Compare and contrast the atmospheric pressure of your planet/moon to that of earth.

National Science Education Standards

D1: Energy in the earth system

D3: Origin and evolution of the earth system

D4: Origin and evolution of the universe



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Challenge Question

Scientists can observe major meteorological events on other planets/moons from telescopes such as the Hubble Space Telescope. Describe major meteorological occurrences that have been observed in recent years on your planet/moon.

National Science Education Standards

D1: Energy in the earth system

D4: Origin and evolution of the universe

F6: Science and technology in local, national, and global challenges



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Challenge Question

National Science Education Standards



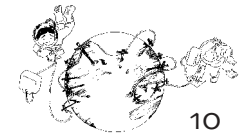
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