

SpaceOLÉ • Discovery Challenge Cards

SpaceOLÉ Discovery Meteorologist

Challenge Question

Does your moon/planet have an atmosphere?
If not, why? If so, what are its layers and composition?

Keywords

planet/moon name, atmosphere

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



SpaceOLÉ Discovery Meteorologist

Challenge Question

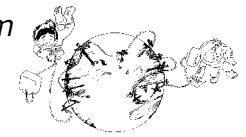
How does the atmosphere, or lack thereof, affect the surface of the planet/moon?

Keywords

planet/moon name, atmosphere

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
E1: Abilities of technological design



SpaceOLÉ Discovery Meteorologist

Challenge Question

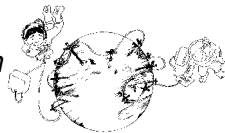
Indirect sun rays create uneven heating of the Earth, which causes a system of air currents and winds to be formed. What kind of heating does your planet/moon experience?

Keywords

planet/moon name, rotation, weather

National Science Education Standards

D1: Energy in the earth system
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SpaceOLÉ Discovery Meteorologist

Challenge Question

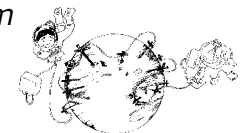
Describe the temperature ranges on your planet/moon.

Keywords

planet/moon name, weather, temperature

National Science Education Standards

D1: Energy in the earth system
D3: Origin and evolution of the earth system
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Challenge Question

Are there air currents on your planet/moon? If so, describe them.

Keywords

planet/moon name, weather, air currents

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



SpaceOLÉ Discovery Meteorologist

Challenge Question

Is it very windy on your planet/moon?

Keywords

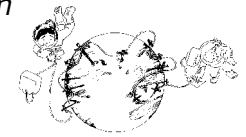
planet/moon name, weather, wind

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 causes changes in air pressure. Does your planet/moon have high and low pressure systems?

Keywords

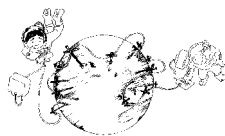
planet/moon name, weather, pressure

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

What sources of energy (wind, thermal, solar, fossil, etc.) exist on your planet/moon that could be utilized by humans?

Keywords

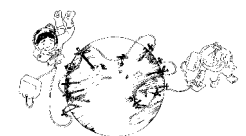
planet/moon name, weather, climate, energy

National Science Education Standards

D1: Energy in the earth system

D4: Origin and evolution of the universe

F3: Natural resources



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Challenge Question

Describe your planet/moon's weather.

Keywords

planet/moon name, weather

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



SpaceOLÉ Discovery Meteorologist

Challenge Question

Does your planet/moon have climates? If not, why not? If so, describe them.

Keywords

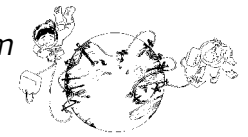
planet/moon name, climate

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

Does your planet/moon have any storms? If so, what causes them?

Keywords

planet/moon name, weather, storms

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



SpaceOLÉ Discovery Meteorologist

Challenge Question

Does your planet/moon have any clouds? Why or why not?

Keywords

planet/moon name, weather, clouds

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

