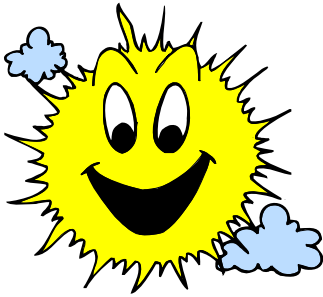


Sun, Earth , and Moon



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Name_____

Solar System

Internet Site Exploration

Directions: Go to the following Internet sites and answer the questions below.

<http://starchild.gsfc.nasa.gov/docs/StarChild/StarChild.html>

- Click on the **Level 1 Solar System** tab; page down and click on **The Moon.**

1. Who was the first human to set foot on the Moon?

2. What was the date the Lunar Module landed on the Moon's surface? _____

3. What was recently discovered at the poles (top and bottom) of the Moon? _____

- Click the **Back** button; page down and click on **The Sun.**

4. What type of star is the Sun?_____

5. How old is the Sun?_____

6. What are the storms on the Sun's surface called?

Site #2

<http://www.EnchantedLearning.com/subjects/astronomy/>

- Page down to The Earth; click on Atmosphere; click on Axis, Tilt, Seasons.

1. The Earth's seasons are a result of what?

2. What degree is the tilt of Earth's axis? _____

3. Why is summer warmer than winter? _____

- Page up and click on The Moon.

4. The Moon is on average how many miles away from Earth?

5. Does the same side of the Moon always face the Earth?
(Yes/No) _____

6. What is the daytime high temperature and the nighttime low
temperature of the Moon? _____

Site #3

http://www.kidsastronomy.com/solar_system.htm

- Click on the **Earth** on the left hand side of the page and answer the following questions.

1. One orbit of the Sun takes how many days? _____
2. How long does it take for the Earth to make one rotation?

3. What is the Earth's distance from the Sun? _____

- Page back up and click on **Earth's Moon** and answer the following questions.

4. What is the name given to the Moon? _____
5. When you see a dark spot on the Moon, what are you looking at?

6. If a large object struck the Moon today, would it cause a volcano? Why or why not? _____

Site # 4

<http://www.exploratorium.edu/ronh/weight/index.html>

- Scroll down, enter your weight, click **Calculate**, and answer the following questions.

1. What is your weight on the Moon? _____
2. What is your weight on Mars? _____
3. What is your weight on Jupiter? _____
4. What is your weight on Pluto? _____
5. What is your weight on the Sun? _____
6. On which planet would your weight be nearly the same as on Earth? _____

Site #5

<http://www.enchantedlearning.com/subjects/astronomy/>

➤ Click on the picture of the Sun and answer the following questions.

1. How long ago was the Sun formed? _____

2. How long does it take for the Sun to spin one time?

3. What is the temperature of the Sun's core? _____

** (Find this in the Solar Rotation tab.)

4. What is the Sun made mostly of? _____

5. The Sun was formed in a nebula. What is a nebula? _____

** (Find this in the Sun's Birth tab.)

6. What is a solar prominence? _____

** (Find this in the Flares, Solar Wind, and Prominences Tab.)

Answer Key

Site #1

1. Neil Armstrong
2. July 20, 1969
3. water ice
4. yellow dwarf star (medium sized star)
5. 4 billion years old
6. sunspots

Site #2

1. the tilt of the Earth's axis
2. 23.45°
3. The sun's rays hit the Earth at a more direct angle during the summer than winters. The days are much longer than the nights during the summer.
4. 238,900 miles
5. yes
6. daytime high $265^{\circ}\text{F}/130^{\circ}\text{C}$
 nighttime low $-170^{\circ}\text{F}/-110^{\circ}\text{C}$

Site #3

1. 365.3 Days
2. 23 hours 56 minutes
3. 150 million kilometers (93 million miles)
4. Luna
5. An ancient bed of lava rock from a large impact. Occasionally a large object would crash hard enough into the Moon to break through its surface rock causing lava to ooze out.
6. No, because the core of the Moon has almost completely cooled down, meaning that there is not any lava in the core to ooze out. It is solid rock through and through.

Site #4

1. answers will vary depending on the child's weight
2. answers will vary depending on the child's weight
3. answers will vary depending on the child's weight
4. answers will vary depending on the child's weight
5. answers will vary depending on the child's weight
6. Saturn

Site #5

1. 4.5 billion years
2. 26 days
3. 10 - 22.5 million °F
4. hydrogen
5. an interstellar cloud of dust and gas (mostly hydrogen)
6. an arc of gas that erupts from the surface of the Sun