Venus

Did you know that Earth has a twin? It’s Venus, the second planet from the sun. Venus is the planet that comes closest to Earth, even though it’s still very far away—about 24 million miles (about 39 million kilometers). Venus is almost the same size as Earth and is made up of similar material, so that’s why scientists call it Earth’s twin.

Venus is Earth’s opposite in other ways. Because it’s much closer to the sun than Earth, Venus is extremely hot on its surface—about 870 degrees Fahrenheit (466 degrees Celsius). That’s hotter than any other planet. It’s even hotter than most ovens! Venus is also very dry. Scientists think Venus used to have a lot of water, just like Earth, but it all boiled away from the heat. Much of Venus is now covered by volcanoes. It has the most of any planet and some are huge—up to 150 miles (241 kilometers) long.

Although astronauts have never landed on Venus, several spacecraft without people on board have visited. Those spacecrafts have taken very detailed pictures of Venus. The most famous one was named “Magellan” and it orbited Venus for four years, ending in 1994. Using radar, Magellan made detailed maps of almost all of Venus’s surface.

When you look into the night sky, you can often spot Venus. That’s because it’s the brightest thing you can see, except for the sun and moon. Venus is sometimes called the “Morning Star” or “Evening Star” because it appears brightest shortly before sunrise and shortly after sunset.

Venus is unique among our solar system’s planets in one unusual way. It’s the only planet to rotate clockwise on its axis, in the same direction that you’d see the hands of a clock move. All the other planets turn in the opposite direction, known as “counter-clockwise.”

**Did You Know...**

Venus was named for the Roman goddess of love and beauty.

Venus is known as the “cloudy planet.” The clouds on Venus aren’t made from water like Earth clouds, they’re made of a poison called “sulfuric acid.”

Venus and Mercury are the only planets without moons.
1. In the Venn diagram, list two ways Earth and Venus are alike, and two ways they're different.

   **Earth**
   1. ___________________
   2. ___________________

   **Venus**
   1. ___________________
   2. ___________________

   **Both**
   1. ___________________
   2. ___________________

2. Why is Venus sometimes called the “Morning Star” or the “Evening Star”?

   __________________________________________________________
   __________________________________________________________

3. Explain how the Earth's rotation is different from Venus'.

   __________________________________________________________
   __________________________________________________________
1. In the Venn diagram, list two ways Earth and Venus are alike, and two ways they're different.

For differences, students may say that Venus is hotter and Earth is cooler; Venus probably does not have water and Earth has water; Earth rotates counter-clockwise and Venus rotates clockwise; Earth has a moon Venus does not.

2. Why is Venus sometimes called the “Morning Star” or the “Evening Star”?

It appears shortly before sunrise and shortly after sunset.

3. Explain how Earth’s rotation is different from Venus’.

Earth rotates counterclockwise, Venus rotates clockwise.
Division Worksheets

8) 304  
7) 521  
7) 630  
6) 484  

3) 143  
4) 349  
2) 46  
3) 111  

9) 397  
4) 239  
3) 81  
9) 351  

Math-Aids.Com
Division Worksheets
38 \div 8 = 304 \quad 74 \div 7 = 521 \quad 90 \div 7 = 630 \quad 80 \div 6 = 484

47 \div 3 = 143 \quad 87 \div 4 = 349 \quad 23 \div 2 = 46 \quad 37 \div 3 = 111

44 \div 9 = 397 \quad 59 \div 4 = 239 \quad 27 \div 3 = 81 \quad 39 \div 9 = 351
**Planet Presentation**

For this project, you must choose ONE planet and describe it to the class. You should describe the planet in detail and discuss facts about it. You can also talk about it’s history of discovery (who first found it? have any satellites visited it?)

You must make a poster OR a power point presentation.

First you should complete the Report about your planet.

This is due Thursday, December 8th.

**Important points to remember:**
- Use full sentences and paragraphs.
- Use proper Titles and Headings.
- Use pictures or draw your own. It should be colorful and nice to look at.
- Double check your spelling and grammar.
- Practice speaking for your presentation.
- If you have any questions, please ask me at school.

This is the rubric I will be using to grade your presentation. To get a perfect score, you must have a level 5 in each category.

<table>
<thead>
<tr>
<th></th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Speaking</strong></td>
<td>Speaks clearly with perfect pronunciation. Tries to make eye contact with the audience.</td>
<td>Speaks well but with some mistakes. A little too quite or mispronunciation of some words. Little eye contact.</td>
<td>Speaking is weak. Too quiet or many mispronunciations. Little or no eye contact.</td>
<td>Speaking is poor. Very difficult to understand. Has difficulty reading from a paper.</td>
<td>Unable to communicate. Cannot describe the topic or relate any information about it.</td>
</tr>
<tr>
<td><strong>Design</strong></td>
<td>Images are appropriate and show great variety in types of information. Layout is pleasing to the eye.</td>
<td>Images are appropriate and show some variety. Layout is cluttered or too spread out. Much colour.</td>
<td>Most images are appropriate and show some variety. Layout has some colour but may be too crowded or sparse.</td>
<td>Images are inappropriate or layout is messy. Few colours.</td>
<td>Only 1 or 2 images and little or no colours. Poor layout.</td>
</tr>
<tr>
<td><strong>Content</strong></td>
<td>Information is accurate and all required information is presented in great detail</td>
<td>Information is accurate but some required information is missing and/or not presented in a logical order, but is still generally easy to follow.</td>
<td>Content is accurate but some required information is missing and/or not presented in a logical order, making it difficult to follow. Not enough information.</td>
<td>Content is questionable. Information is not presented in a logical order, making it difficult to follow.</td>
<td>Content is inaccurate. Information is not presented in a logical order, making it difficult to follow.</td>
</tr>
<tr>
<td><strong>Grammar and Spelling</strong></td>
<td>No spelling errors. No grammar errors. Text is in authors’ own words.</td>
<td>Few spelling errors. Few grammar errors. Text is in authors’ own words.</td>
<td>Some spelling errors. Some grammar errors. Most of text is in authors’ own words.</td>
<td>Some spelling errors. Some grammar errors. Most of text is in authors’ own words.</td>
<td>Many spelling and or grammar errors. Text is copied.</td>
</tr>
</tbody>
</table>
My Planet Report

(Write the name of your planet on this line.)

Draw a large picture of your planet. Be sure your picture includes lots of detail. If your planet has moons, draw and label the moons in your picture.
Planet Report

(name of your planet) is the ______ planet from the sun.

(1st, 2nd, 3rd, etc...)

It is one of the ______ planets because it is located ______ the asteroid belt.

(inner or outer)

(inside or outside)

It is the ______ planet in our solar system.

(largest, 2nd largest, 3rd largest, smallest, etc...)

It takes my planet ______ to orbit the sun.

(amount of time)

(name of your planet) has a ______ gravity than Earth.

(stronger or weaker)

My planet is known for ____________________________________________

______________________________________________________________

______________________________________________________________

(describe a unique feature of your planet)
Describe how your planet was named.

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

Draw the symbol for your planet.

__________________________________________________________________________

Describe the temperature on your planet. Give specific numbers to tell how hot or cold the planet can be.

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

______________________________ has __________________ moons orbiting it.

(name of your planet) (number of moons)

Write the names of your planet’s moons. (If your planet has dozens of moons, like Jupiter or Saturn, then just list a few of the biggest ones.)

__________________________________________________________________________

__________________________________________________________________________
Can your planet be seen at night without a telescope?  

Is your planet made of mostly gas or rock?  

Does your planet have clouds?  

Does your planet have rings around it?  

Is your planet larger or smaller than Earth?  

In the table below, list the names of any satellites or robots that have explored your planet close-up. Also, list the year when each arrived at your planet.

<table>
<thead>
<tr>
<th>Name of Satellite or Robot</th>
<th>Year</th>
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</tbody>
</table>
Interesting Facts

Here are five interesting facts about my planet.

1. 

2. 

3. 

4. 

5. 
List the books and websites where you found your information.

When you list a book, include the author’s name and the title of the book.

When you list a website, list the url and a title of the article.

1. 

2. 

3. 

4. 

5. 

...
Accuracy of Information
All blank lines, questions, and tables in the packet are answered accurately. Student has carefully researched all necessary information. (40 points)

Picture on Cover
The picture on the cover page is accurate and neatly drawn. It includes any applicable moons, rings, and colors. Moons are labeled. (15 points)

Interesting Facts
All five facts are relevant, accurate, and researched. All facts are written in a way that is easy to understand. (15 points)

Bibliography
Several sources of information are listed. Titles, authors, and website addresses are included. (15 points)

Presentation
Handwriting is clear and easy to read. Words are spelled correctly. There are no wrinkled or ripped pages in the packet. (15 points)

Total Grade (out of 100)

Comments: ___________________________________________________________