

Venus Posters

You and your child will start your day of Venus exploration by viewing a series of posters.

What You Need:

- ✂ 5 sheets of poster board in different colors
- ✂ Large print-outs of the questions and answers in the below boxes
- ✂ Cover sheets for the answers
- ✂ Color images related to the content
- ✂ Glue or tape to adhere the information to the posters

What to Do:

Each of the following should be made into a big, bold, colorful poster with related images. Make sure the answers to the questions are on the posters, but covered by a page labeled “lift me” that hides the answer.

Poster 1:

Venus and Earth are almost the same size, with Venus being just a little bit smaller than Earth!

Venus is the second closest planet to the Sun.

Is Venus closer to the Sun than Earth? Or farther away?

Answer: Closer!

Poster 2:

Both Venus and Earth have atmospheres ... but they are very different!

Earth’s atmosphere has mostly nitrogen and oxygen with a little bit of carbon dioxide and some other gases. Most – not all! – living things need oxygen.

The atmosphere on Venus has no oxygen, but lots of carbon dioxide. Carbon dioxide is one of the gases important for keeping a planet warm. Venus has soooooooooooooooooooooo much carbon dioxide, that the atmosphere traps lots of heat – and the temperatures reach 900 degrees (F)!

Which is hotter on the surface, Earth or Venus?

Answer: Venus!

Poster 3:

All living things need liquid _ _ _ _ _.

Earth has lots of this flowing across its surface and filling its oceans and lakes.

Do you think Venus has liquid _ _ _ _ _ on its surface?
Remember the temperature at the surface of Venus!

Answer: Water! Venus is soooooooo hot, it has no liquid water at its surface!

Poster 4:

Both Venus and Earth have volcanos.

We know that many of Earth's volcanos are active – they erupt!

No one has ever seen a volcano on Venus erupt, but planetary scientists who study the more than 1000 volcanic areas on Venus report that the volcanos look fresh – their edges and surfaces have not been worn down by erosion from wind.

Another hint about volcanism on Venus comes from its surface. Its surface has relatively few craters on it – do you remember the cratered surface of Mercury? Scientists think that lava flows covered the surface of Venus recently.

Poster 5:

You can see Venus in the night sky! It looks like the brightest "star" – but it is a planet, of course.

"Venus" is the Roman name for the goddess of love. It was considered to be the most beautiful (and brightest!) planet in the heavens.

Possible Poster Images

Images can be found at:

Poster 1:

http://www.nasa.gov/images/content/145452main_iss012e19194.jpg

Poster 2:

<http://www.nasa.gov/audience/formedia/presskits/spacefood/factsheets.html>

Poster 3:

<http://liftoff.msfc.nasa.gov/academy/astronauts/sleep.html>

Poster 4:

http://www.nasa.gov/images/content/152964main_s121e07412_hi_res.jpg

Poster 5:

http://www.nasa.gov/mission_pages/shuttle/shuttlemissions/sts116/launch/sts116_summary.html