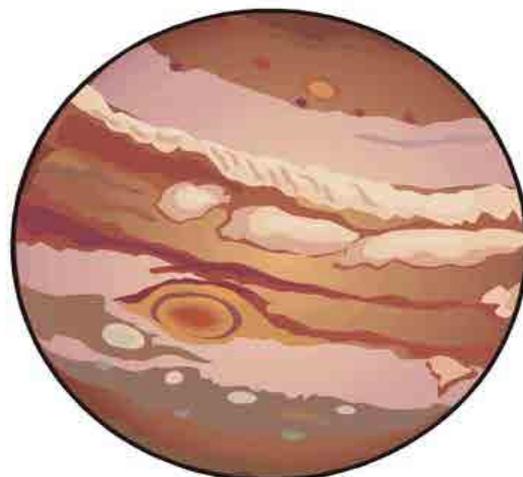
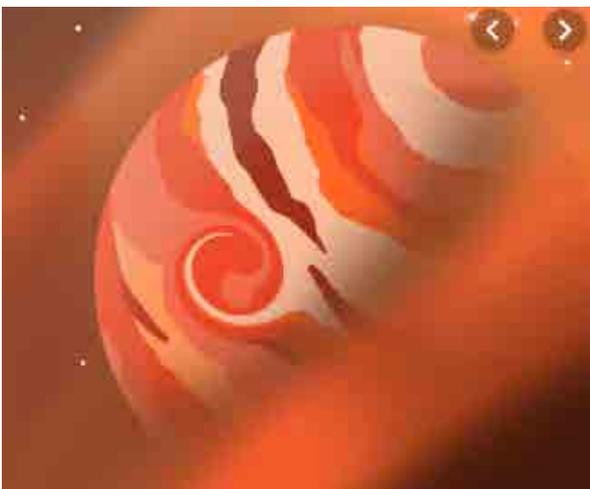




Activity 1: Jupiter the King

Jupiter is often called the King of the Planets because of its enormous size. Jupiter is also known as a 'gas giant' whose surface is not solid at all but a thick atmosphere, a layer of gases it that creates swirling colours of red, yellow and white. Big storms create magnificent cloud formations. While you can't walk on Jupiter you can admire it from the safety of a spacecraft.

To Do: Paint a gigantic picture of Jupiter by drawing a big round shape on a large sheet of paper using red, yellow and white paint. See pictures of Jupiter below for inspiration.

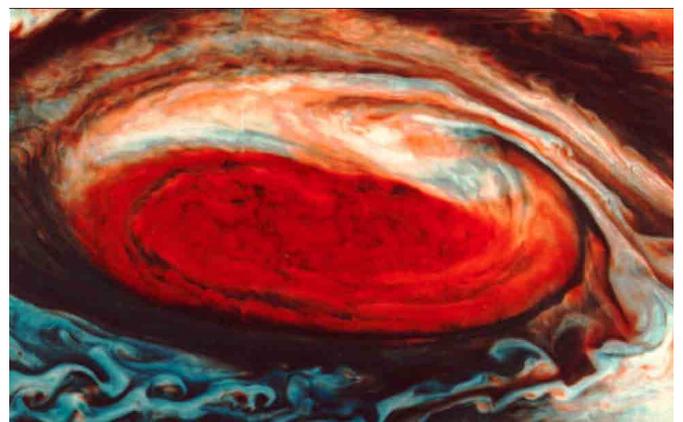




Activity 2: The 'Eye' of Jupiter

Jupiter looks beautiful but its environment isn't. Dangerous levels of radiation and powerful winds create enormous hurricane-like storms. The biggest storm is the Red Spot. It is famous for its raging gas storms, which give it quite an impressive and even frightening and scary look too. It's also called the 'Eye of Jupiter' because of its shape. Not sure that the place of the Red Spot is a journey we want to take!

To Do: Paint your own Big Red Spot.
See below examples of artwork for inspiration.





Activity 3: Jupiter's Moons

Earth has only one moon but Jupiter has at least 79 moons! The four largest and most interesting are: Europa, Io (pronounced eye-oh), Ganymede and Callisto.

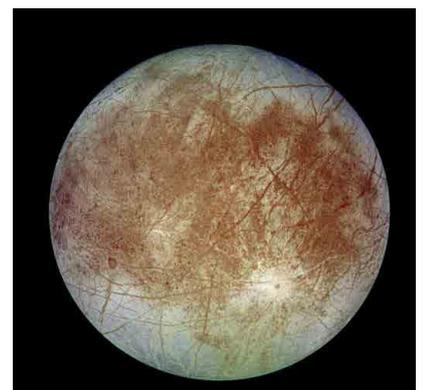
Europa has a smooth surface made of moving ice sheets similar to the ones in the North or South Pole on Earth. There may be an moving ocean beneath the ice. The cracks between the white and blue ice look like red scars.

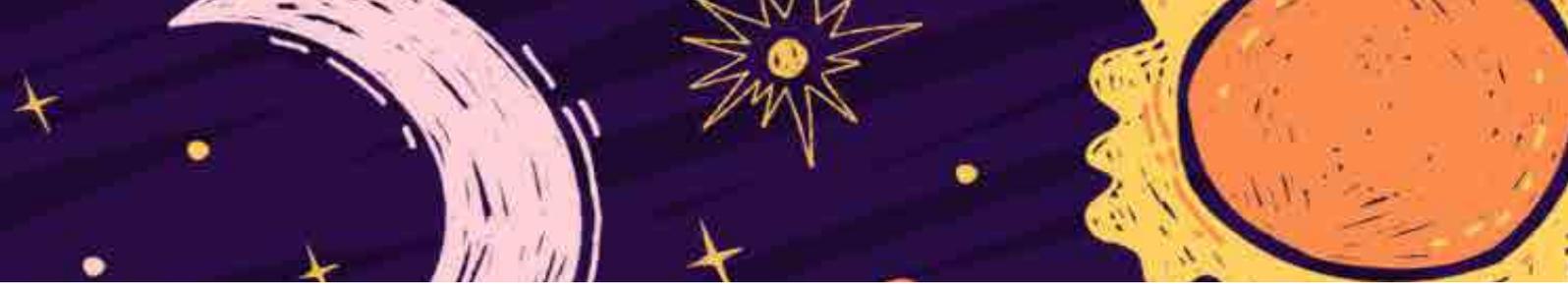
IO is one of the most violent places in the Solar System with over 400 active volcanoes, lava flows and lakes, big sulphur fields covering the surface in shades of yellow, red, white, black, and green. It looks truly amazing like a golden ball!

Ganymede is very big, it is the biggest moon in the Solar System. It's mostly made of ice and rock and might have a liquid-water ocean beneath its surface. From its white, blue and green surface it looks like you could skate on it.

Callisto is full of craters most likely due to asteroids and meteorites crashing on its surface which is coated by a thick layer of powdery dust and ice. From photographs taken by the space orbiter it looks like a beautiful blue glass ball full of white crystals.

To Do: Paint the 4 moons on light cardboard by using the colours listed above and underlined for each moon . Once dry cut around the shape to get 4 circular moons to hang in your bedroom. Look at the images below for inspiration.

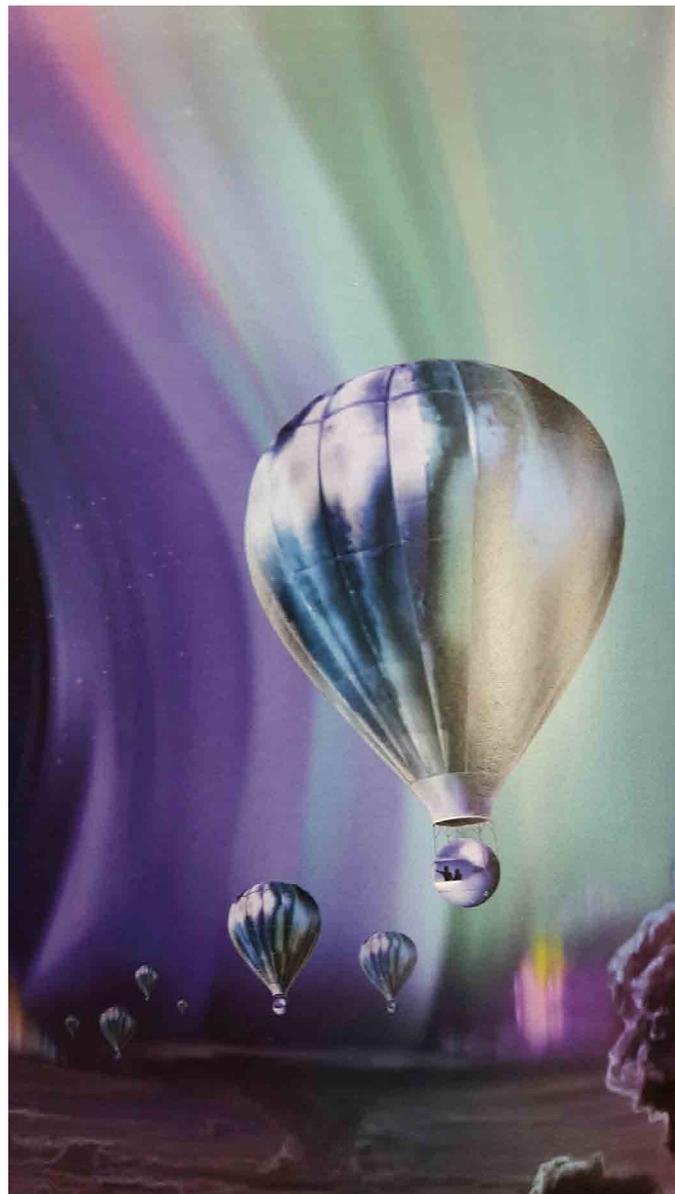


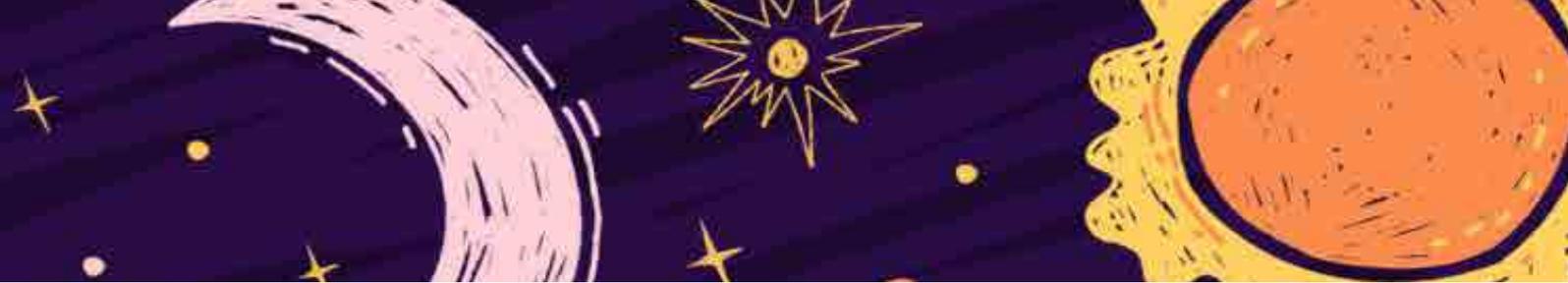


Activity 4: Balloon rides on Jupiter

Would you like to take a balloon ride over Jupiter's polar regions and see a wonderful display of lights? Jupiter's auroras – colourful light shows in the night sky – are brighter, faster, and more colourful than the ones on Earth. If you were to orbit (go around) high above Jupiter's poles you could see plenty of them.

To Do: Design a balloon that would take you up into Jupiter's night sky where you can enjoy a truly amazing light show!





Activity 5: Jupiter's Floating Creatures

Unlike the Earth which is made of a rock and water Jupiter's surface is made of a dense, cloudy and thick atmosphere of gases. We cannot know precisely what life would be like in such a place but we can imagine it.

One likely creature to emerge could be something that floats over Jupiter.

We can call them 'floaters' – like our hot-air balloons – very large beings like the greatest whales we have on Earth.

To Do: Design and make a floating creature using recycled material you may find around the house.

