

Family Learning Session 6 - Jupiter



Jupiter's appearance is full of colorful stripes and spots – the cloud bands that encircle the planet, and the cyclonic storms dotting it from pole to pole. The gas planet likely has three distinct cloud layers in its "skies" that, taken together, span about 44 miles (71 kilometers). We used engineering to explore the design of Jupiter's features as in the light areas, there are white clouds that are made from crystals of frozen ammonia-rich hail described as

'mushballs'. We made our own mushballs:



We wanted to explore Jupiter's layers which make up the atmosphere which has four layers: troposphere, stratosphere, thermosphere, and exosphere. Using science we supported our child to create their own Jupiter bottle to show the swirling gas inside with 4 different colours of powder.



As the bottle spins the water swirls around just like the gas on Jupiter. The mica powder we added makes the water sparkly so we can see Jupiter's swirls. Jupiter is a lot bigger than earth and the only thing bigger in our solar system is the sun.