
SFERA KIDS
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> The Solar System

(3)
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Dralwing
$\star$


Crafts

2．Did you know that we live in a spiral galaxy known as the $\qquad$ ？

7．A meteoroid that enters the earth＇s atmosphere and vaporizes．Also called
$\qquad$淂（12 Letters）

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5．Jupiter，Saturn，Uranus，and Neptune are called $\qquad$ Planets because they are much larger than Earth．（5 letters）．


1．The
 is in the center of our solar system．（3 Letters）

6．Between Mars and Jupiter，one can find the $\qquad$家
4．Mercury，Venus，Earth and Mars are called terrestrial $\qquad$ $00^{\circ}{ }^{\circ}$ 웅 due to their solid matter． （7 Letters）

Belt．（8 Letters） Oh！Did I leave Pluto out？This is because Pluto was declared a
$\qquad$ （5）planet in 2006！
（5 Letters）
Colour the image below according to the numbers．


1＝White，2＝Light Blue，3＝Dark Blue，4＝Purple
5＝Red，6＝Yellow，7＝Light Gray，8＝Dark Gray

## Moon Phases In A Cup

## Materials:

- Two large clear plastic cups
- Black paper
- Black marker, yellow paint
- Labels (optional)

1) Cut a rectangular piece of black paper the same height of the plastic cups.

2) Place the first cup (with the black paper) into the second cup. Write "Full moon" on the outer cup under the yellow circle.
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3) Follow the diagram below to draw the rest of the phases on the outside cup.
Draw the grey parts of the diagram with black marker.


Moon on inside cup

Moon on outside cup
2) Paint a yellow circle on the black paper. Once dry, roll the paper and place it in the cup (make sure the yellow circle is facing out and not covered by the paper).
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4) Turn the inside cup slowly and write out the names of all 8 phases next to each other under the yellow circle. If they don't fit, try starting over by drawing a smaller circle.
6) Don't forget to write the names of the phases. Turn the cups around to match the moon at night! See what today's moon phase is called.


## Materials:

- Paper plate
- String
- Poster colours
- Black marker
- Pencil
- Scissors
- Hole Puncher

1) Use the pencil to draw a half moon with a nose and mouth on your paper plate.

2) With the remaining plate material, draw a star and cut it with your scissors.

3) Use the poster colours to paint the moon and star. Once they are dry, attach them together with a string.



Alternative drawings: The Sun and a planet or a planet and a moon.

## String Solar System

## Materials:

- Embroidery thread
- White glue
- Water *
- Bowl
- Balloons
- Cups

1) Cover the table with old newspaper/ paper towels so you don't stain the table.

2) Blow up the balloons in different sizes depending on the size of the planets.
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3) When you cover the balloon with the embroidery thread, leave it standing on a cup to dry. It is important to put it on a cup so the extra residue doesn't drip on the table.

4) In the bowl, mix the glue and the water (equal parts).

$*$
5) Dip the embroidery thread in the glue \& water mixture, and place it randomly around the balloon until most of it is covered. Use different colours for the different planets.
6) Once dry, hang a piece of string from the top poles and hang the planets in your room.


Tip: You can hang them around the light source of the room as if it is the Sun!

## Ganymede Up Close: <br> (one of) Jupiter's Moons!

- Water

- Ice
- Beaker or large mason jar (transparent)
- Pebbles/rocks of different sizes

Note: On Ganymede, ice is the top layer. So, if we happen to land on it, we would land on frozen water (ice). Beneath it, there is land (rocks). Just like Ganymede, in this experiment we will see what these layers are like.

1) Ganymede is made up of ice and rocks. Which one of these floats in water? And which one of these will sink?

2) But what would happen if the layers were in different order? If we layer the ice under the rocks, the ice becomes trapped!

3) Stir the water with a spoon and let's see what happens to the materials inside.

4) Let's try this out! Pour water into a large jar until it's $2 / 3$ full. Slowly place some rocks and pebbles of different sizes in the jar, then slowly add the ice on top to avoid splashing.

5) When planets and moons are formed, they are formed naturally which means that no one places the water, land and ice; it happens naturally. So let's shake up the scene a bit and see what happens naturally.
6) What happened? All the elements separated and spread according to their density! This is what happens in space. All the planets and moons form with the densest material at the core.


## Themed Science Shows and Activities <br> <br> May－June <br> <br> May－June 

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