

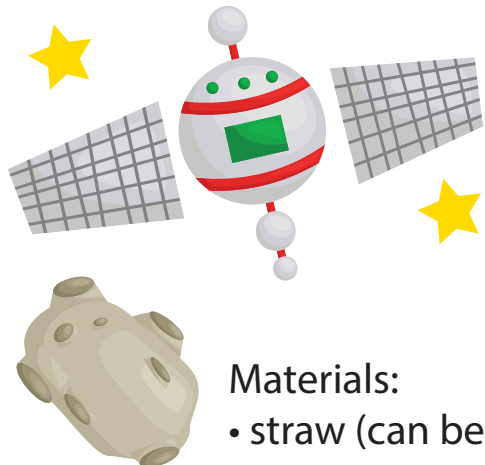


SHOOT FOR THE STARS

Space Themed
Crafts,
Games, &
Activities



straw Rockets



SHOOT
FOR THE
STARS



Materials:

- straw (can be reusable)
- tape
- paper or the template on the following page
- crayons, markers, or colored pencils for decorating
- scissors

Instructions:

- Decorate the following rocket or draw and color your own
- Cut out the rocket and rectangle on the following template or a piece of paper the same size
- Roll the rectangle of paper around your small finger or a pencil and tape it together forming a cylinder
- Fold one end of the cylinder over and tape shut
- Tape the cylinder to the back of your rocket
- Place the rocket gently on the end of your straw
- With your rocket facing up, blow into the open end of your straw and watch it launch!



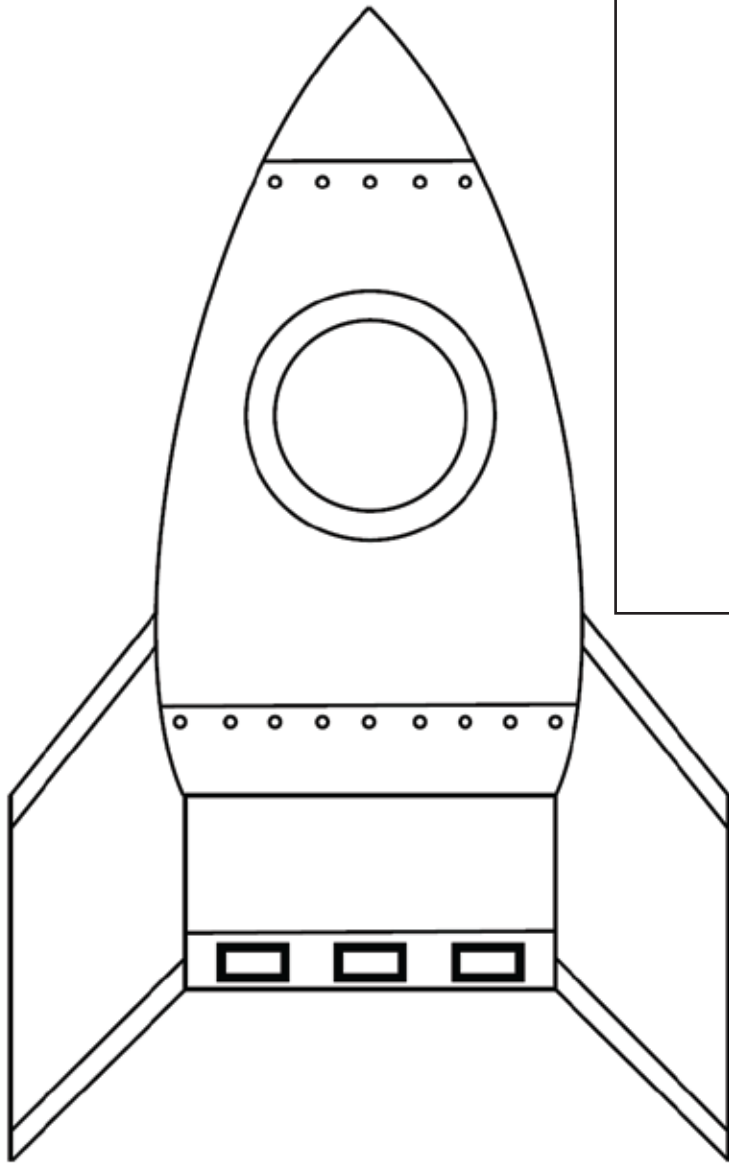
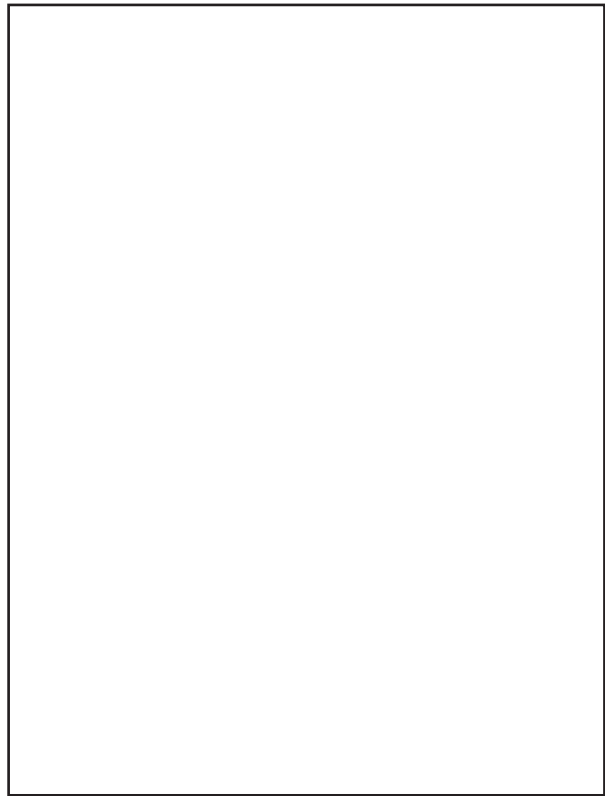
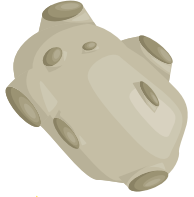
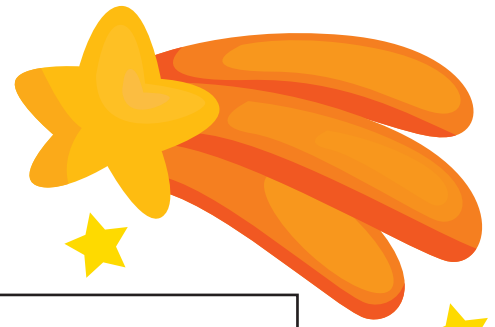
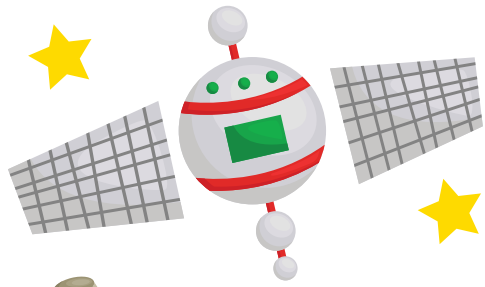
image from
teachbesideme.com



image from buggyandbuddy.com

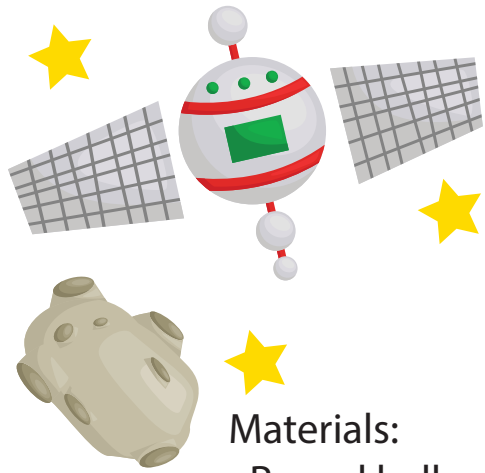


SHOOT
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Straw Rocket
Template





SHOOT FOR THE STARS



Lasso the Planets

Materials:

- Round balls of all sizes
- Hula Hoop/s
- Strong string/rope
- Scissors
- Tape (optional)

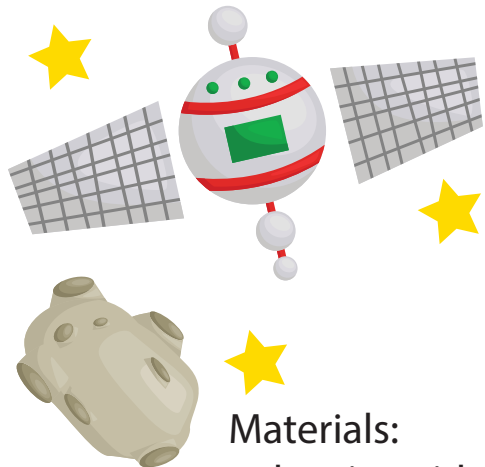
Instructions:

- Tie 6+ feet of string or rope onto each hula hoop so it can be thrown like a lasso (If needed secure the rope knot around the hula hoop with tape)
- Outside, spread out different sized balls over a large surface area. The different balls will represent the planets (soccer ball = Earth, tennis ball = Mars, basketball = the sun, etc.)
- Use the hula hoop lassos to try to lasso the planets (balls) and bring them towards you
- Alternatively, place the planets (beach balls) into a pool and stand on the outside edge to lasso the floating planets



image from raisingdragons.com





SHOOT FOR THE STARS



Galaxy Jar

Materials:

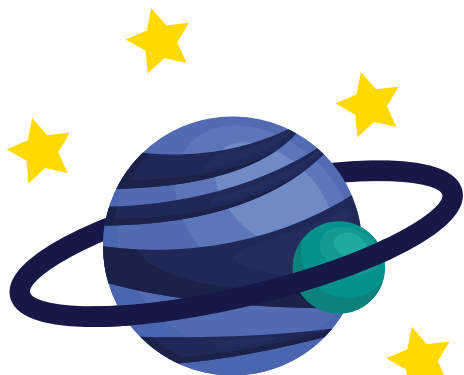
- glass jar with securable lid (mason jar)
- craft paint in "galaxy colors" (blue, purple, black, pink, etc.)
- cotton balls (approximately 50 per jar depending on size)
- silver glitter
- water

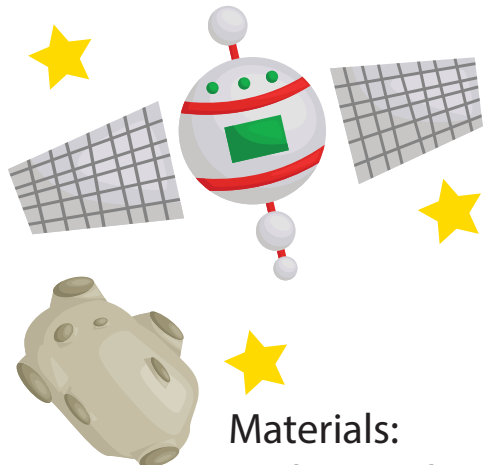
Instructions:

- Fill the jar about 1/4 with water then add a generous amount of glitter and a squirt of one color of paint. Mix well
- Pull apart a few cotton balls and push them into the bottom of the jar to absorb most of the liquid. Don't compact the cotton too much, you want it to stay loose
- Fill the jar 1/3 full of water and add more glitter and another color of paint. Carefully mix
- Add more pulled apart cotton balls to this layer
- Repeat this process until the jar is filled
- Finish the top layer with cotton balls and do not compact down before tightly screwing on the lid
- For fun, make sure the lid is secured, flip the jar upside down, and slowly twist the jar to see all the colors and glitter mix



image from myhomebasedlife.com





SHOOT FOR THE STARS



Asteroid Hunt

Materials:

- Palm sized rocks (purchase from a home improvement store or find them in your backyard)
- Painting supplies: craft paint, brushes, water, newspaper

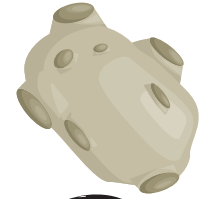
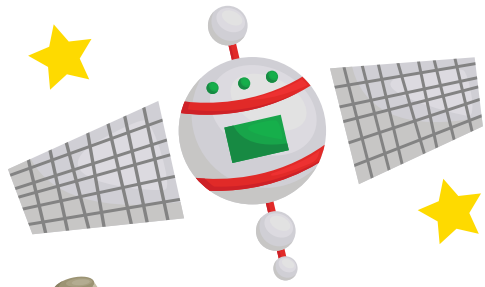
Instructions:

- Hunt for asteroids (rocks) either in your backyard or at the home improvement store
- Paint your asteroids with whatever colors and designs you want
- When the paint is dry, hide all of the asteroids and challenge your family to find them. Once all of the asteroids have been found, have someone else hide them, so everyone gets a turn at both hiding the asteroids and finding them.



image from freepik.com





Paper Plate UFO

Materials:

- two paper plates
- stapler
- markers, crayons, or colored pencils
- clear plastic cup
- clear tape or strong craft glue/hot glue
- one piece of paper, white or colored
- scissors

Instructions:

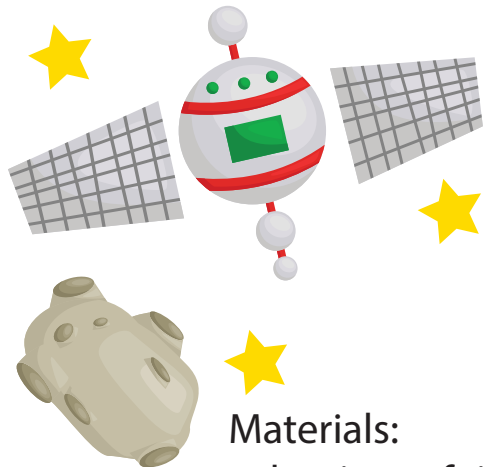
- Decorate the bottom sides of two paper plates then staple them together, colored side out, to form the body of the UFO
- Draw a space alien on the piece of paper. Make sure it will fit in the clear cup and is not too big. Leave a 1 inch space beneath your alien on the paper
- Cut out the alien and the 1 inch space as one piece
- Fold the blank space underneath your alien backwards
- Using the folded part of the paper, tape or glue the alien to the top of your UFO so the alien is upright
- Tape or glue the clear cup over the alien on top of the UFO



image from woojr.com



Make a Comet



Materials:

- aluminum foil
- popsicle stick, chopstick, or small dowel
- ribbon
- scissors
- optional: hot glue

Instructions:

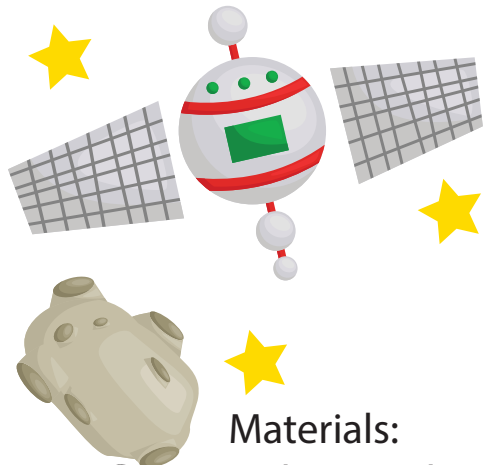
- Cut strips of ribbon 6 inches long to be the tail of the comet
- Tear off a large square of aluminum foil and lay flat
- Gather the ribbon in a bunch and place it on the flat surface overlapping the aluminum foil by 1 inch
- Roll up the aluminum foil with the ribbon inside and squish down to secure the ribbon
- Crumple the aluminum foil into a ball with the ribbon sticking out as a tail to form a comet
- Poke the stick into the bottom of the comet
- Optional: secure the stick and/or the ribbon with hot glue



image from littlepassports.com



Marbled Planets



Materials:

- white cardstock
- shaving cream
- acrylic craft paint
- toothpick
- foil container (pie tin)
- scissors
- squeegee

Instructions:

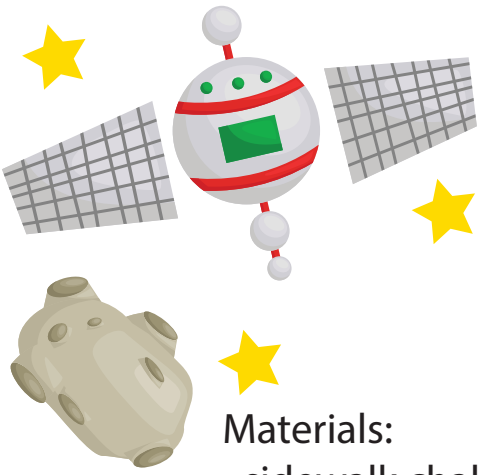
- Cut the cardstock into a circle that will fit in the pie tin. Use a bowl, cup, or plate as a template to cut a perfect circle
- Cover the bottom of the pie tin in shaving cream and smooth it out
- Drizzle different colors of paint onto the shaving cream
- Use a toothpick to marble or swirl around the paint
- Press the circle down into the paint and lightly rub the whole circle to make sure the shaving cream sticks to the whole thing
- Carefully remove the circle and let sit for 1-2 minutes
- Use the squeegee to remove excess shaving cream from the circle (planet)
- Optional: mount the planet on a black piece of paper and add glitter as stars



image from iheartcraftythings.com



Sidewalk Constellations



Materials:

- sidewalk chalk
- small rocks
- constellation picture

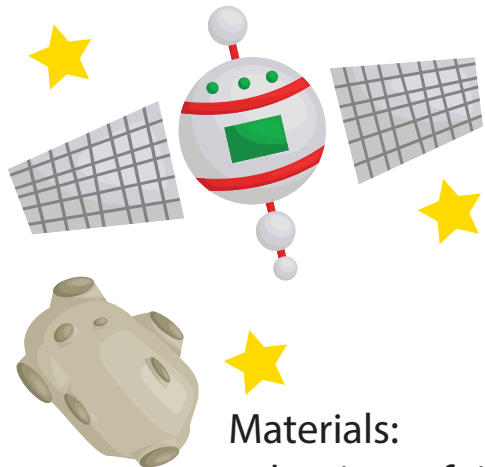
Instructions:

- Look up a picture of your favorite constellation
- Place rocks that represent the stars on a sidewalk or blacktop
- Connect the dots with sidewalk chalk to form the constellation
- Create as many constellations that fit in your space



image from thistinybluehouse.com





SHOOT FOR THE STARS



MOON ROCK HOP

Materials:

- aluminum foil
- plastic spoon
- tape, pillows, or other items to mark the floor

Instructions:

- Make a moon rock roughly the size of a golf ball out of aluminum foil. Get creative and make different sized/shaped balls for a little extra challenge
- Create lunar craters on the floor by marking off areas with a tape "x," pillows, paper, etc. Leave enough space between the craters to jump/hop from crater to crater
- Test your astronaut gravitational pull as you try to jump/hop from crater to crater while balancing your moon rock on a spoon. Hold the spoon in your hand or for an extra challenge, hold it with your teeth. Can you keep the moon rock from falling?

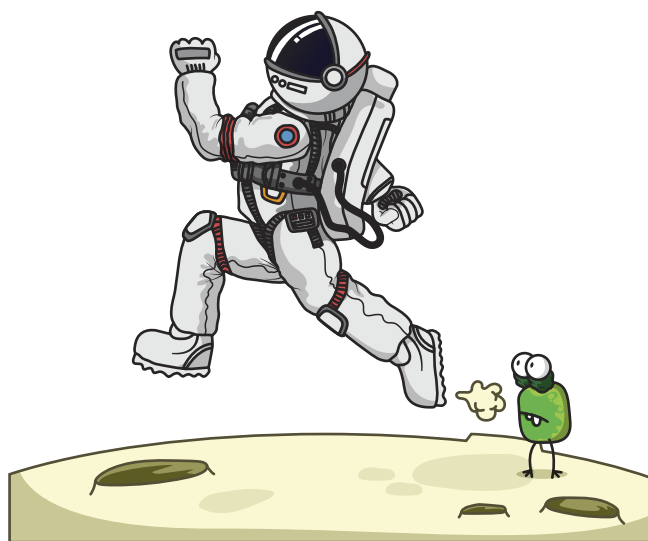
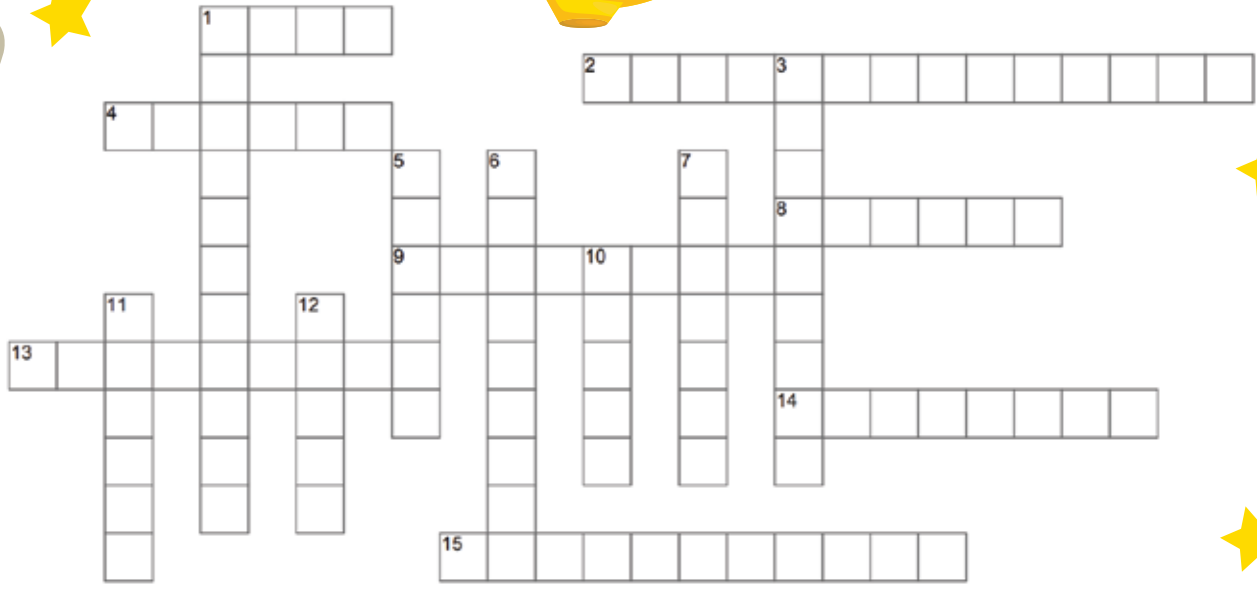
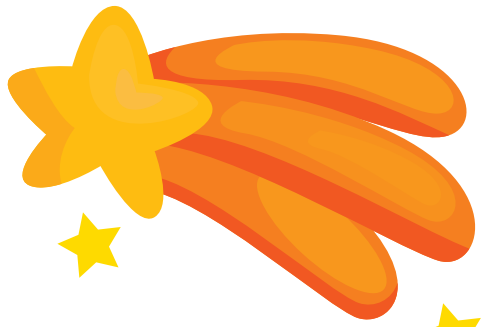
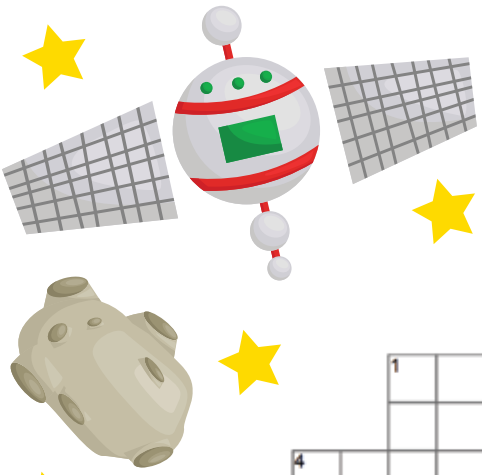


image from freepik.com



Crossword



ACROSS

1. A hot ball of glowing gas.
2. The first person to use a telescope to study the stars.
4. Gravitationally bound system of stars, stellar remnants, interstellar gas and dust, and dark matter.
8. Telescope named after the astronomer Edwin Hubble.
9. Person trained to command, pilot, or serve as a crew member of a spacecraft.
13. Technical instrument used to see distant objects as stars.
14. A medium-sized rocky object orbiting the Sun.
15. Interplanetary space probe that was launched to study Pluto, its moons and the Kuiper belt.

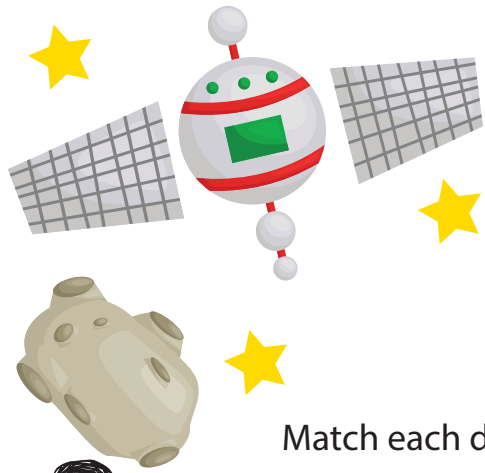
DOWN

1. The Sun and all the objects that orbit it.
3. The distance traveled by light in a year.
5. A bowl-shaped depression formed by the impact of a meteoroid.
6. An object in orbit around a planet.
7. The natural attraction between physical bodies.
10. Gravitationally curved path of an object around a point in space.
11. A body in orbit around the Sun large enough to have achieved hydrostatic equilibrium and to have cleared the neighbourhood around its orbit.
12. A small body that circles the Sun with a highly elliptical orbit.

CRATER	NEW HORIZONS	SATELLITE	SOLAR SYSTEM
PLANET	TELESCOPE	GALAXY	GRAVITY
STAR	ASTRONAUT	COMET	LIGHT-YEAR
GALILEO GALILEI	ASTEROID	ORBIT	HUBBLE



Crossword Puzzle from allfreeprintable.com



SHOOT FOR THE STARS



Match each description to the correct picture by drawing a line.

Solar System Match Up

This is the largest and fastest spinning planet

This planet is named after the Roman god of war and is sometimes called "the red planet"

This planet, known for its rings, is so light it would float in water (if there was a body of water big enough for it)

This is the brightest and hottest planet

This planet is closest to the sun and has no moons or rings

This planet hits the coldest temperatures and is known as an "ice giant"

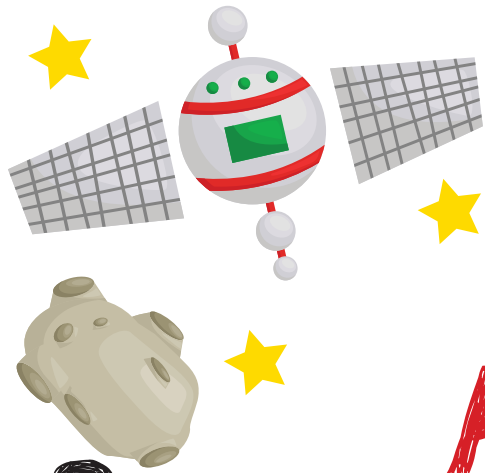
The largest dwarf planet in the solar system

This planet is farthest from the sun and is a deep blue color

This planet's surface is 70% water and is the only known planet to support life

This hot ball of glowing gasses is at the heart of the solar system





SHOOT FOR THE STARS



ANSWERS

Solar System Match up

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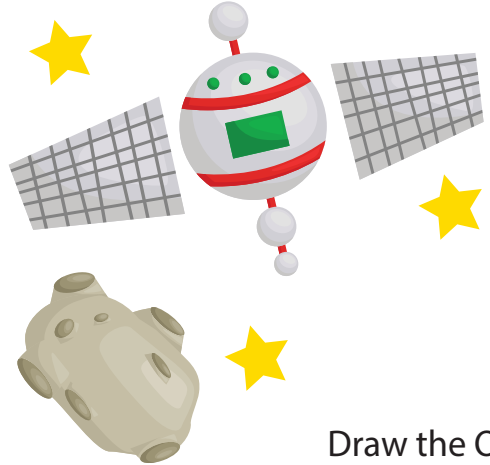
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SHOOT FOR THE STARS



Draw the Orion spacecraft by connecting the numbered dots.

connect the Dots

