




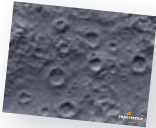















Space & Sky






WEEK 1 SPACE FROM EARTH

STEAM STATION	YOUR SUPPLIES	BIG QUESTION AND INSPIRATION PHOTOS	TEACHER TIPS
LESSON 1 Constellation Design <small>SCI 4 Technology</small>	Hole punches Paper (white, yellow) Black poster board Glue sticks	 	Explore hole punchers by punching circles out of paper. Glue the circles to a large black poster board or bulletin board to create a space sky filled with constellations.
LESSON 2 Around the Sun <small>SCI 2 Natural & Earth Science</small>	Pie tin Golf balls or ping-pong balls Playdough (yellow)	 	Stick a yellow playdough “sun” in the middle of a pie tin. Tilt the tin and explore rolling a ball around the dough. Add more balls and investigate motion. Ask, “How is this like planets orbiting the sun?”
LESSON 3 Moon Sand <small>SCI 2 Natural & Earth Science</small>	Flour Baby oil Containers of different sizes Bin	 	Mix 4 c. flour with 1/2 c. baby oil to create moon sand in a large bin or sensory table. Set out different-sized containers to use as molds.
LESSON 4 Looking Far <small>SCI 4 Technology</small>	Binoculars Clipboard Paper Markers/crayons		Set out binoculars near a window. Encourage the children to look out the window at things far away, then draw what they see.
LESSON 5 Planetarium <small>SCI 4 Technology</small>	Sheet Blanket String of lights Paper Markers/crayons		Drape a sheet over a table. String lights underneath. Put a blanket on the floor so the children can study the “stars.” Leave paper inside the homemade planetarium and invite the children to draw the stars.



WEEK 2 ROCK PLANETS

LESSON 6 Earth Jars <small>SCI 2 Natural & Earth Science</small>	Recycled water bottles with caps Sand or dirt Water Nature items Blue food coloring (optional)		Set out water bottles with caps, a variety of nature items, sand or dirt and water. Fill the “Earth Jars” with water, sand and any desired nature items, then secure with top. If desired, add a drop of blue food coloring.
LESSON 7 Stringing Planets <small>SCI 1 Investigation & Inquiry</small>	Paper sun Yarn Scissors Tape Cardboard tube Planet photos	 	Cut a cardboard tube into eight pieces and tape a planet photo to each. Tape eight yarn pieces horizontally on the wall next to the paper sun. Arrange the planets farther away or closer to the sun.
LESSON 8 Mars Sand <small>SCI 2 Natural & Earth Science</small>	Flour Vegetable oil Food coloring (optional) Bin Containers and utensils Clear zip bags (optional)	 	Make Mars Sand according to the provided recipe, then put it into a bin with various containers and utensils for play, then encourage the children to explore. If desired, provide clear zip bags so the children can take home their own scoop of Mars Sand.
LESSON 9 Reflecting Light <small>SCI 4 Technology</small>	Flashlight Pattern blocks Paper Markers Tape	 	Hang a large piece of paper on the wall. Prop up a flashlight so that it shines on the paper. Hold up one of the translucent pattern blocks in the light and trace the shadow on the paper.
LESSON 10 Spaceship Building <small>SCI 1 Investigation & Inquiry</small>	Recycled containers with lids Paper towel tubes	 	Set out a variety of building materials such as paper towel tubes and old food containers. Invite the children to use the materials to build a rocket ship.

WEEK 3 GIANT PLANETS

STEAM STATION	YOUR SUPPLIES	BIG QUESTION AND INSPIRATION PHOTOS	TEACHER TIPS
<p>LESSON 11</p> <p>Jupiter Mountains</p> <p>SCI 2 Natural & Earth Science</p>	<p>Sand Egg carton Scissors</p>	<p>How can you build planet mountains?</p> 	<p>Fill a sensory table with sand and an egg carton cut into pieces. Explore making egg carton mountains in the sandy surface of Jupiter.</p>
<p>LESSON 12</p> <p>Uranus Ice</p> <p>SCI 4 Technology</p>	<p>Balloon Colored water Spoons Craft sticks Bowl (optional)</p>	<p>How do you think icy planets feel?</p> 	<p>Fill a balloon with water (add a drop of blue food coloring), then freeze it. Peel off the balloon and set out the “frozen planet” to explore with spoons and craft sticks.</p>
<p>LESSON 13</p> <p>Stitching a Planet</p> <p>SCI 1 Investigation & Inquiry</p>	<p>Paper plates Hole punches Yarn Scissors Tape</p>	<p>Which planets have rings?</p> 	<p>Set out small paper plates and hole punches. Encourage the children to punch holes in any design into their plates. Then tape a long piece of yarn to the bottom of the plate and weave it through the holes.</p>
<p>LESSON 14</p> <p>Spinning in Space</p> <p>SCI 4 Technology</p>	<p>Old CDs or paper plates with holes punched in the center Markers Paper Tape</p>	<p>What things spin? What makes them spin?</p> 	<p>Tape large paper sheets to a table, then set out old CDs (or plates) and markers. Encourage the children to insert markers into the CD or plate holes to make spinning tops. Then experiment with spinning them on the paper.</p>
<p>LESSON 15</p> <p>Milky Way Spray</p> <p>SCI 2 Natural & Earth Science</p>	<p>Poster board or paper (black) Spray bottles Paint Water Tape</p>	<p>Can you make a galaxy?</p> 	<p>Tape black poster board or paper onto a wall. Fill spray bottles with watery paint (purple, blue and white work well). Encourage the children to spray the paper and create the Milky Way galaxy.</p>

WEEK 4 EXPLORING SPACE

<p>LESSON 16</p> <p>Space Animals</p> <p>MR 7 Logic & Reasoning</p>	<p>Stuffed animals Foil Paper bags Milk jugs with tops cut off</p>	<p>What do astronauts wear in space?</p> 	<p>Set out stuffed animals, foil and paper bags. Design astronaut uniforms and dress up the animals for space.</p>
<p>LESSON 17</p> <p>Gravity Drop</p> <p>SCI 1 Investigation & Inquiry</p>	<p>Variety of light and heavy objects</p>	<p>How do objects fall to the ground?</p> 	<p>Set out a variety of light and heavy objects for children to test and see how they fall to the ground.</p>
<p>LESSON 18</p> <p>Space Food Bag</p> <p>SCI 1 Investigation & Inquiry</p>	<p>Clear zip bags Playdough Scissors</p>	<p>Can you make space food?</p> 	<p>Cut the corners off the zip bags and experiment with squeezing playdough through the holes. Pretend to be making space food.</p>
<p>LESSON 19</p> <p>Galaxy Goo</p> <p>SCI 1 Investigation & Inquiry</p>	<p>5 oz. glue ½ - ¼ c. liquid starch Bowl Food coloring Glitter (optional)</p>	<p>What shape is a galaxy?</p> 	<p>Dump the glue in a bowl, then add glitter (if desired) and food coloring. Add liquid starch a little at a time until the mixture reaches desired consistency. Explore stretching, kneading and molding with the goo.</p>
<p>LESSON 20</p> <p>Swinging Planets</p> <p>SCI 3 Physical Science</p>	<p>Whiffle balls Yarn</p>	<p>What shape is an orbit?</p> 	<p>Hang 3-5 whiffle balls from the ceiling with yarn, low enough so the children can reach up and touch the balls. Experiment with pushing and swinging the balls in an orbit.</p>

Set-Up Directions

These open-ended STEAM stations invite children to investigate, problem-solve and create.

- Hang the Big Question and Inspiration Photos on the wall next to the place you set up the investigation.
- If desired, use labels to identify and organize materials children will use (and clean up) as they explore STEAM stations.

ROTATING YOUR STATIONS

- Introduce one new STEAM station daily. Leave that station set up all week. By the end of the week, children will have five stations to explore.



A master set of supply labels for STEAM and your environment, including blank labels for you to use with miscellaneous supplies, can now be found on Member Resources.

STEAM
STATIONS

STEAM stations integrate perfectly with the monthly Experience Preschool Curriculum kits for a comprehensive research-based early learning system. Learn more and start your research-based curriculum today.

ExperienceCurriculum.com



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**What do
you see in
the night sky?**



**How do
the planets
orbit the sun?**



**How can you
make craters
in the moon sand?**



**What can you
see far away?**




**What do you
wish upon a star?**



**What is on the
Earth's surface?**



**How far away
is the sun?**



**What is on
Mars' surface?**



**What color
is light?**



**How can you
build a spaceship?**



**How can
you build planet
mountains?**



**How do you think
icy planets feel?**



**Which planets
have rings?**



**What things spin?
What makes
them spin?**



**Can you make
a galaxy?**



**What do
astronauts wear
in space?**



**How do objects
fall to the ground?**



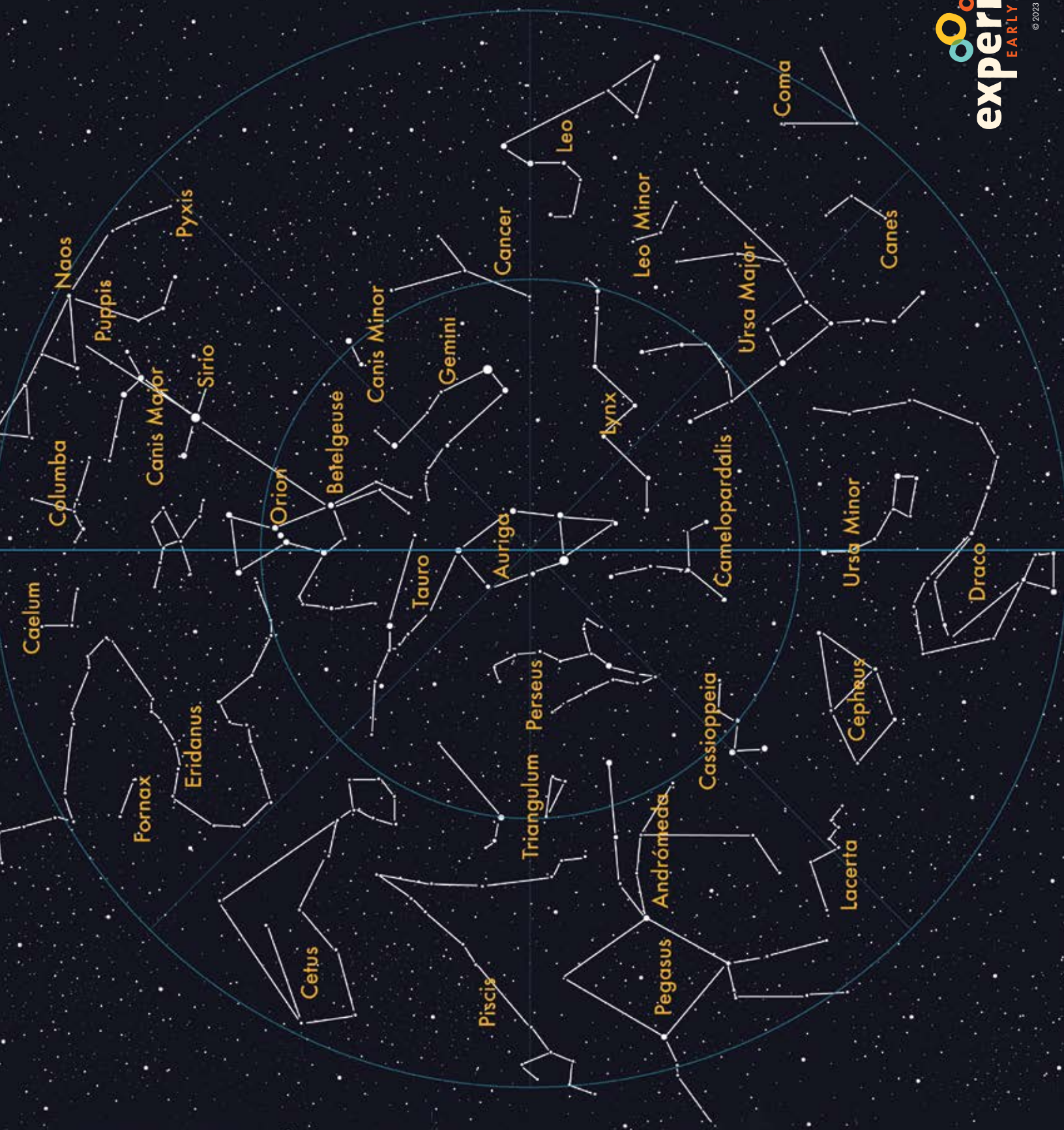
**Can you make
space food?**

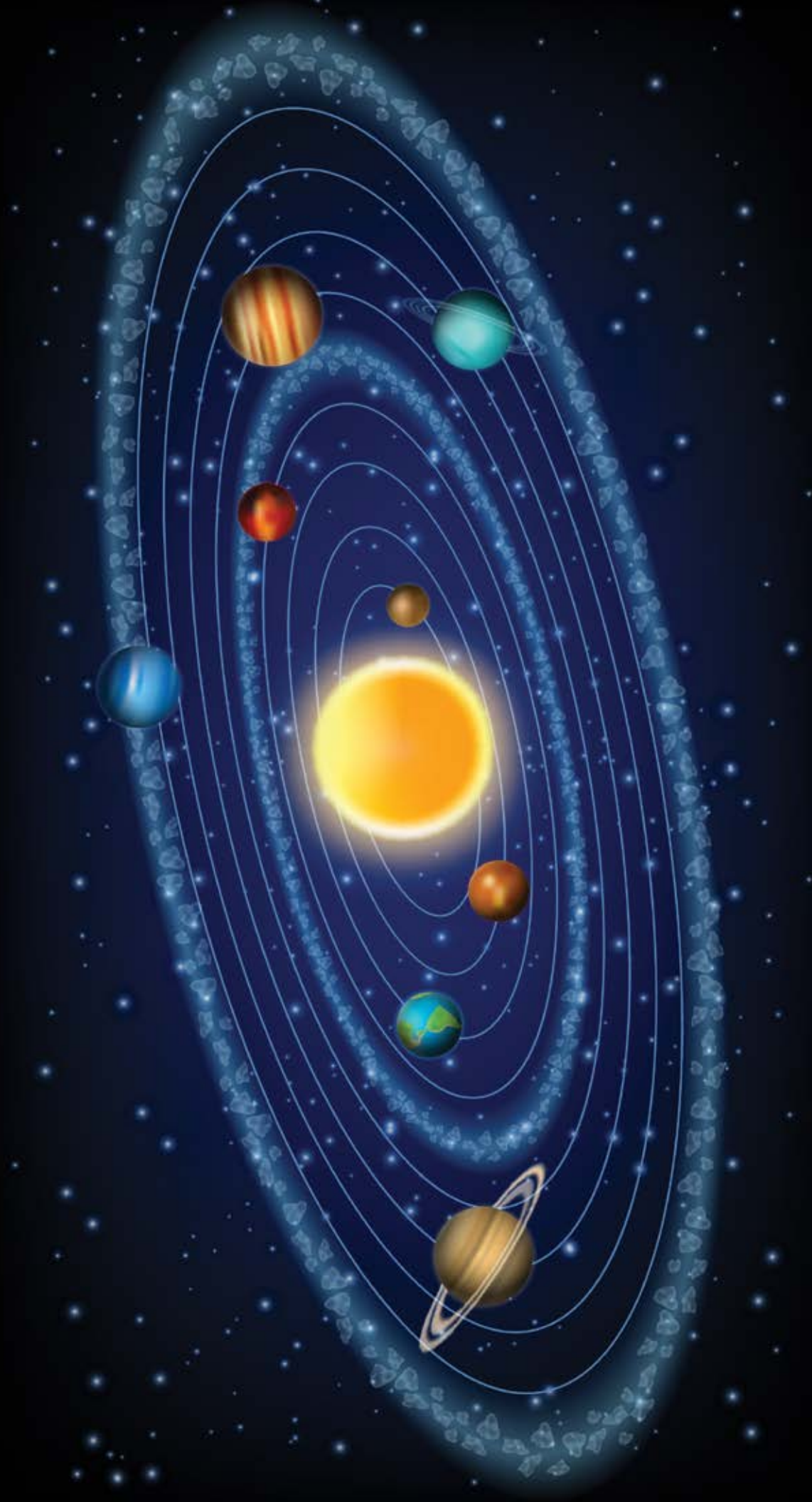


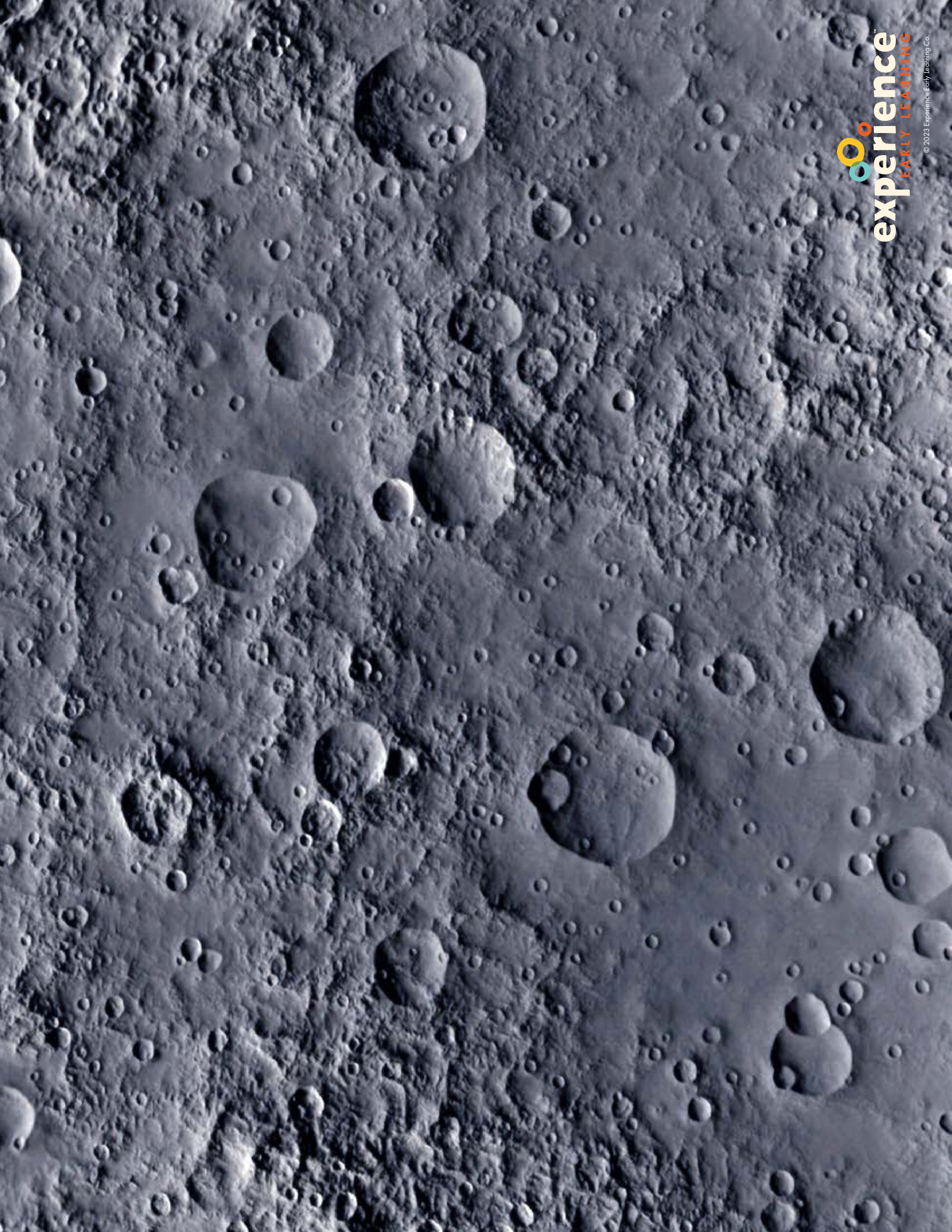
**What shape
is a galaxy?**

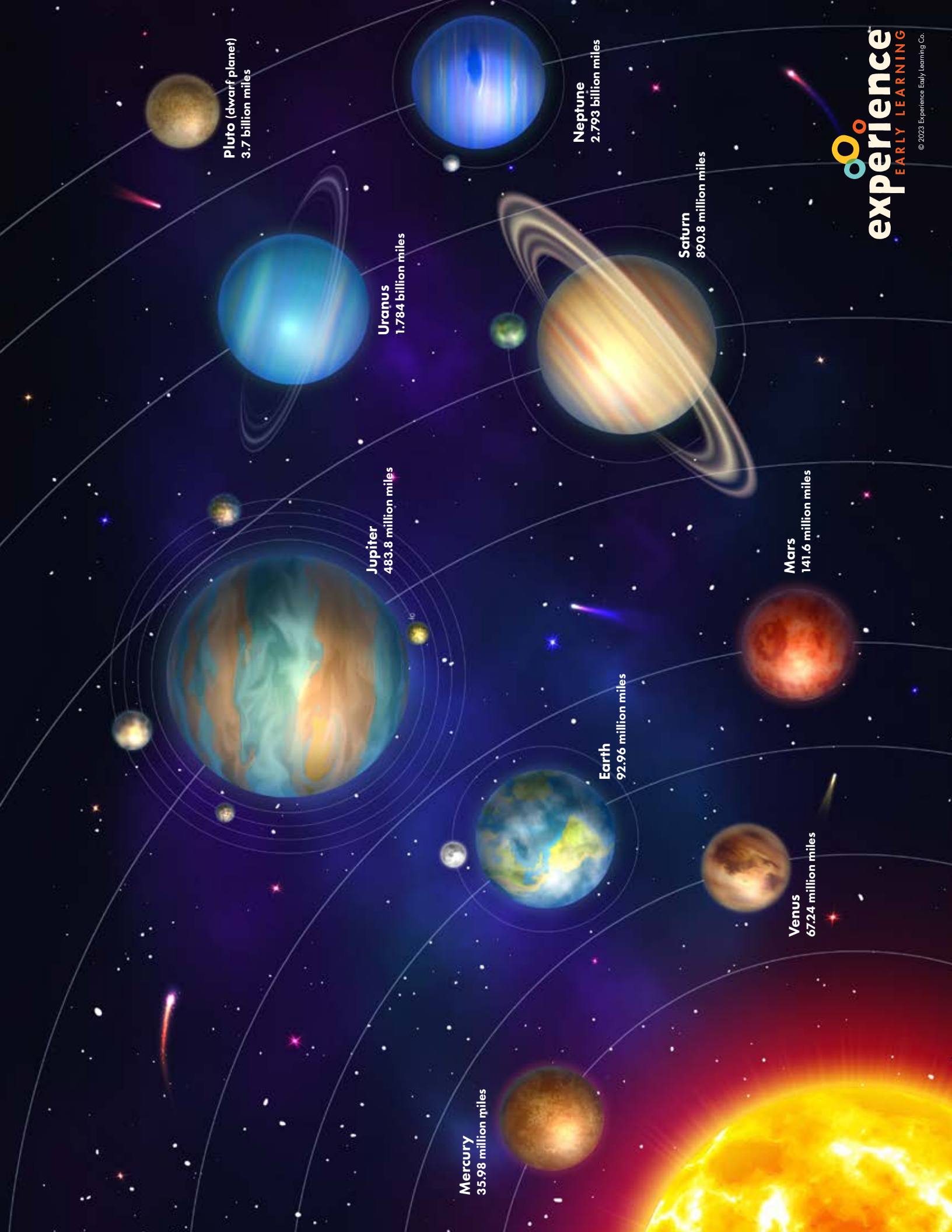


**What shape
is an orbit?**









Mercury
35.98 million miles

Venus
67.24 million miles

Earth
92.96 million miles

Mars
141.6 million miles

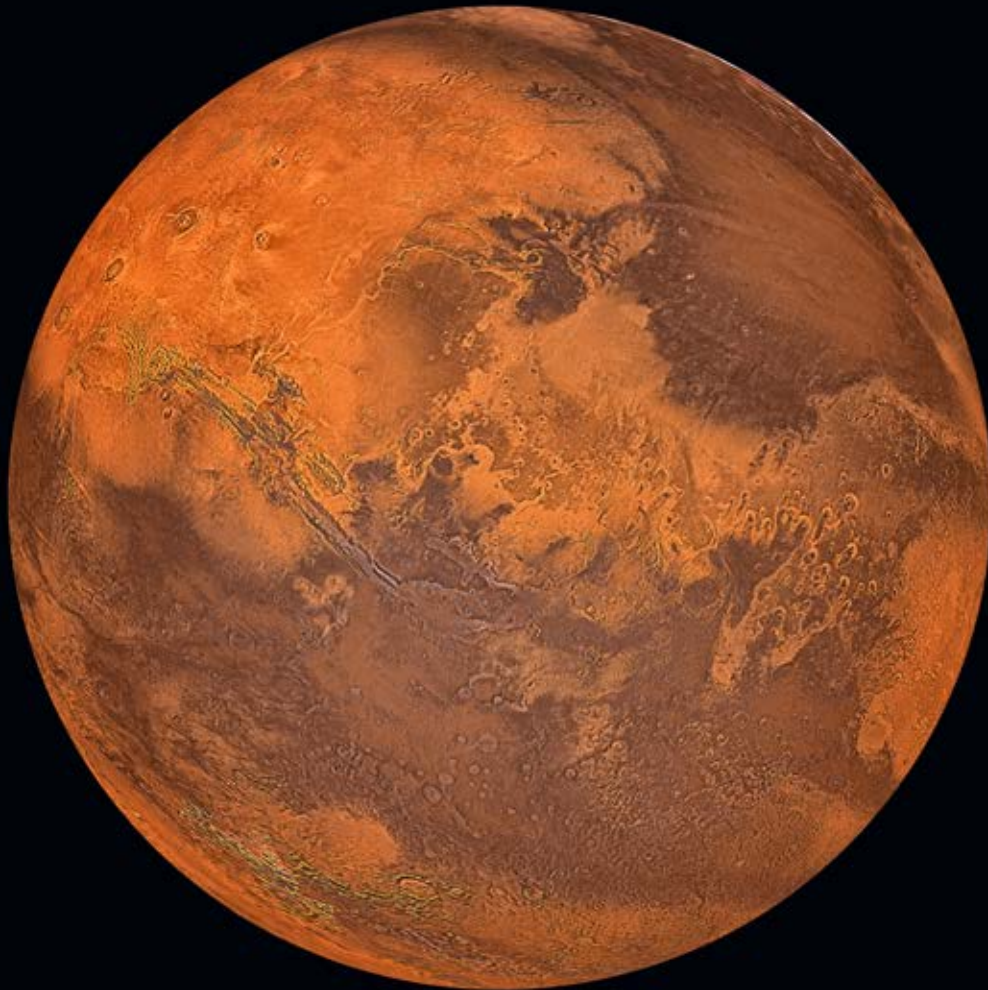
Jupiter
483.8 million miles

Saturn
890.8 million miles

Uranus
1.784 billion miles

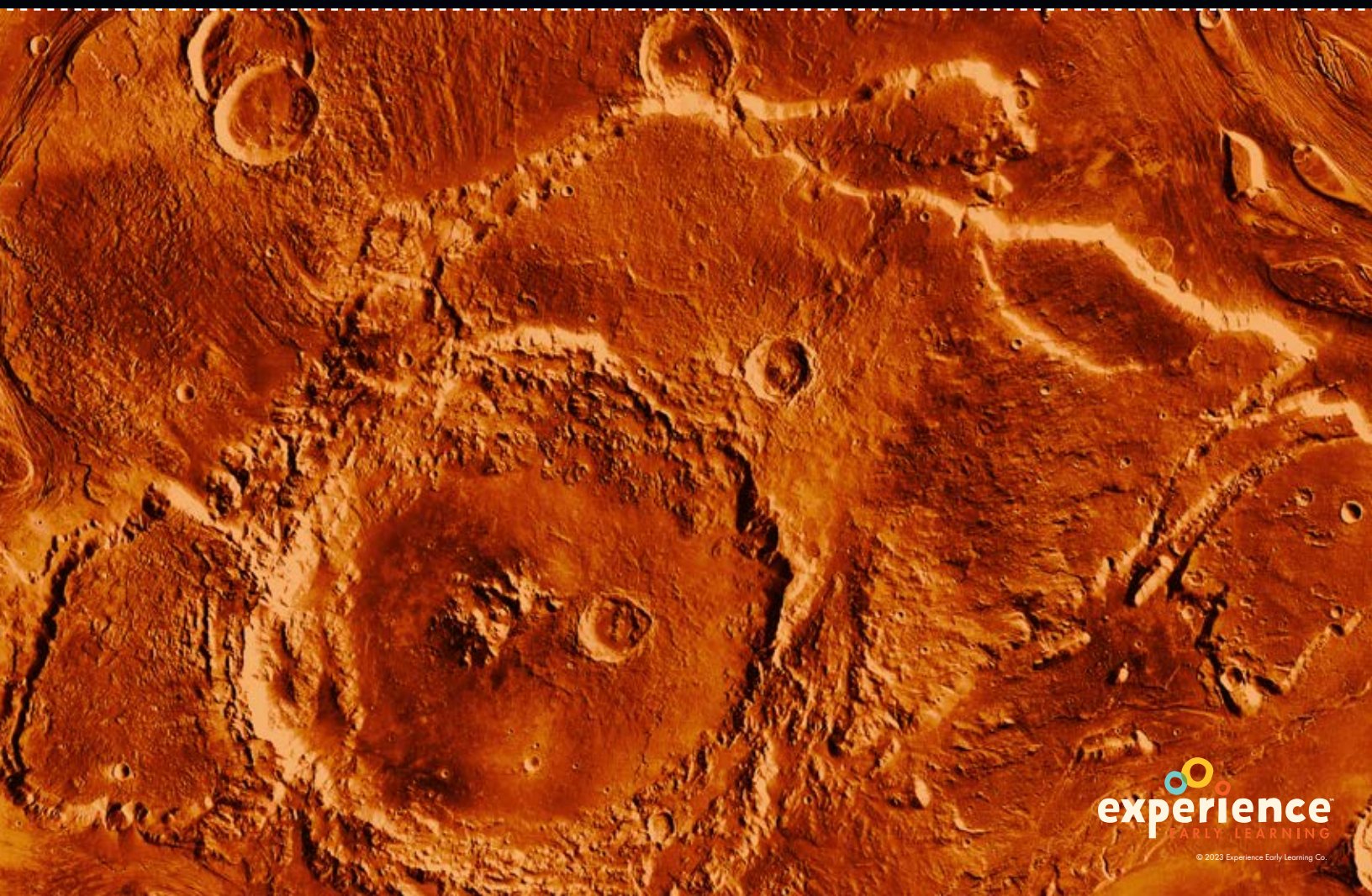
Neptune
2.793 billion miles

Pluto (dwarf planet)
3.7 billion miles



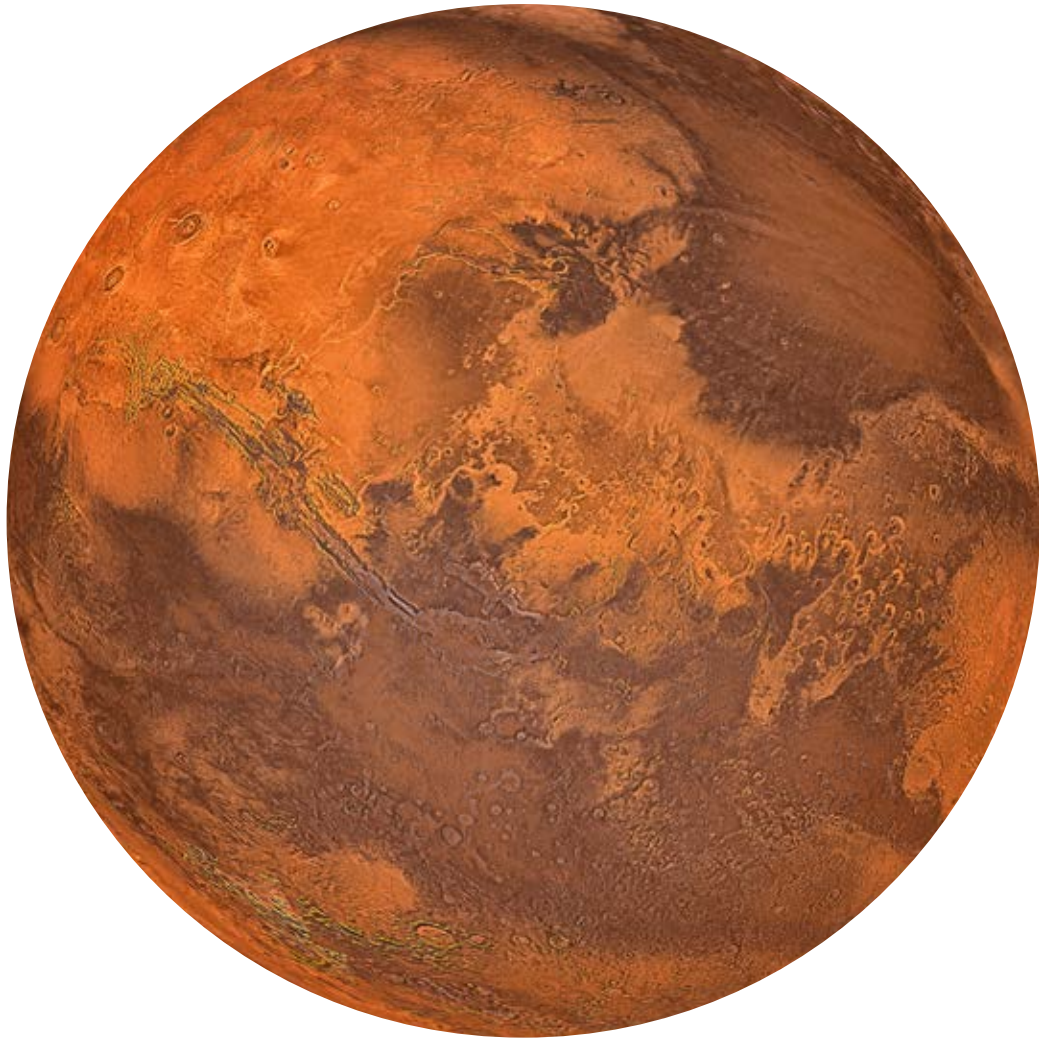

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Mars Sand

INGREDIENTS

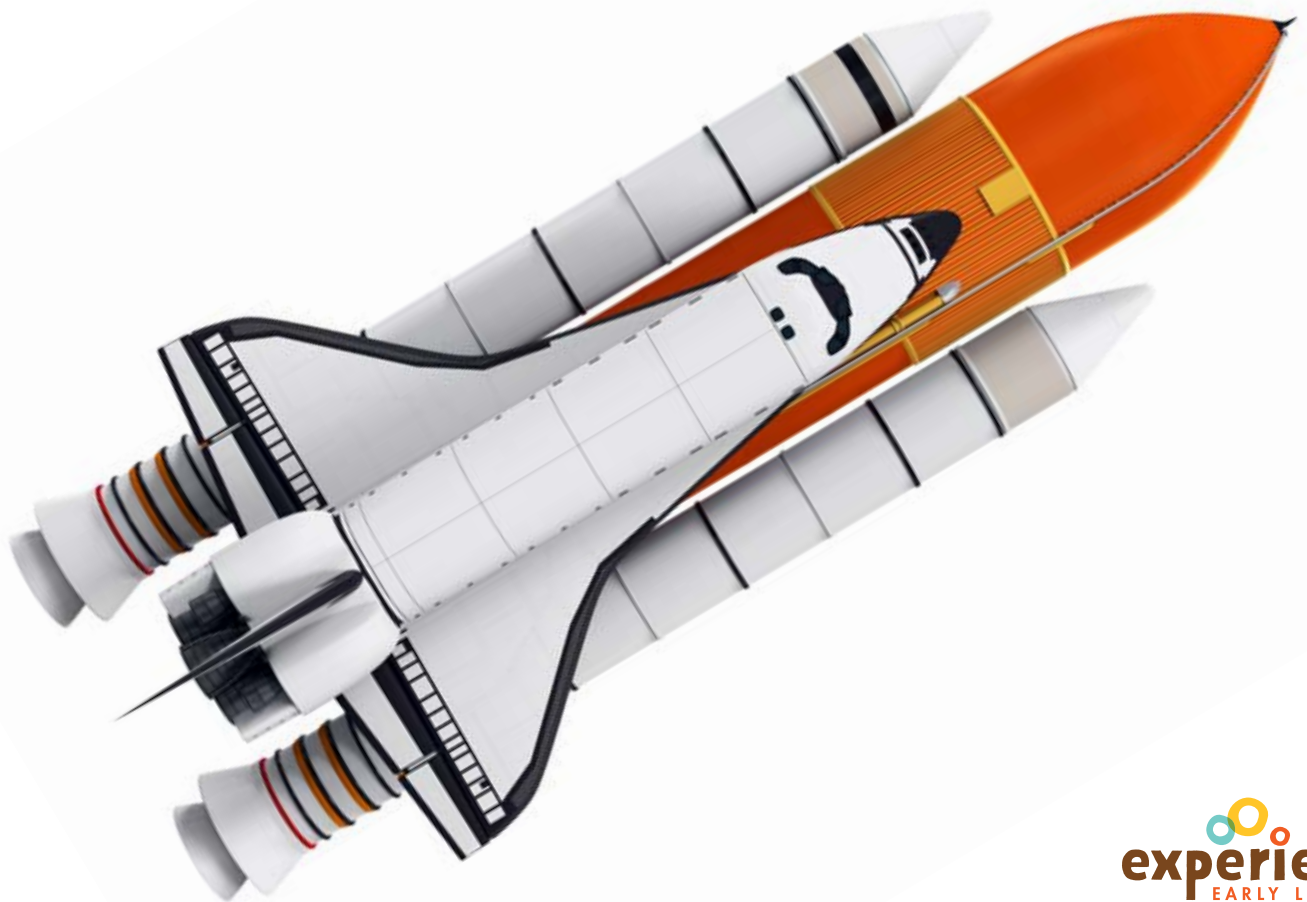
3 c. flour or cornflour
6 Tbsp. vegetable oil
Food coloring (optional)

Makes ~3 cups

- Put the flour in a bowl, then slowly stir in the oil and food coloring, if using.
- Rub the oil and food coloring through the flour with your fingertips, as if you were making pastry, until the mixture feels sandy and no oil is visible. If the mixture seems too dry, add a few more drops of oil, or if the mixture is too soft, add some more flour. The consistency should be a dry, shapeable clay that crumbles fairly easily when squeezed.
- Mars Sand can be kept in a sealed container at room temperature for up to a month.



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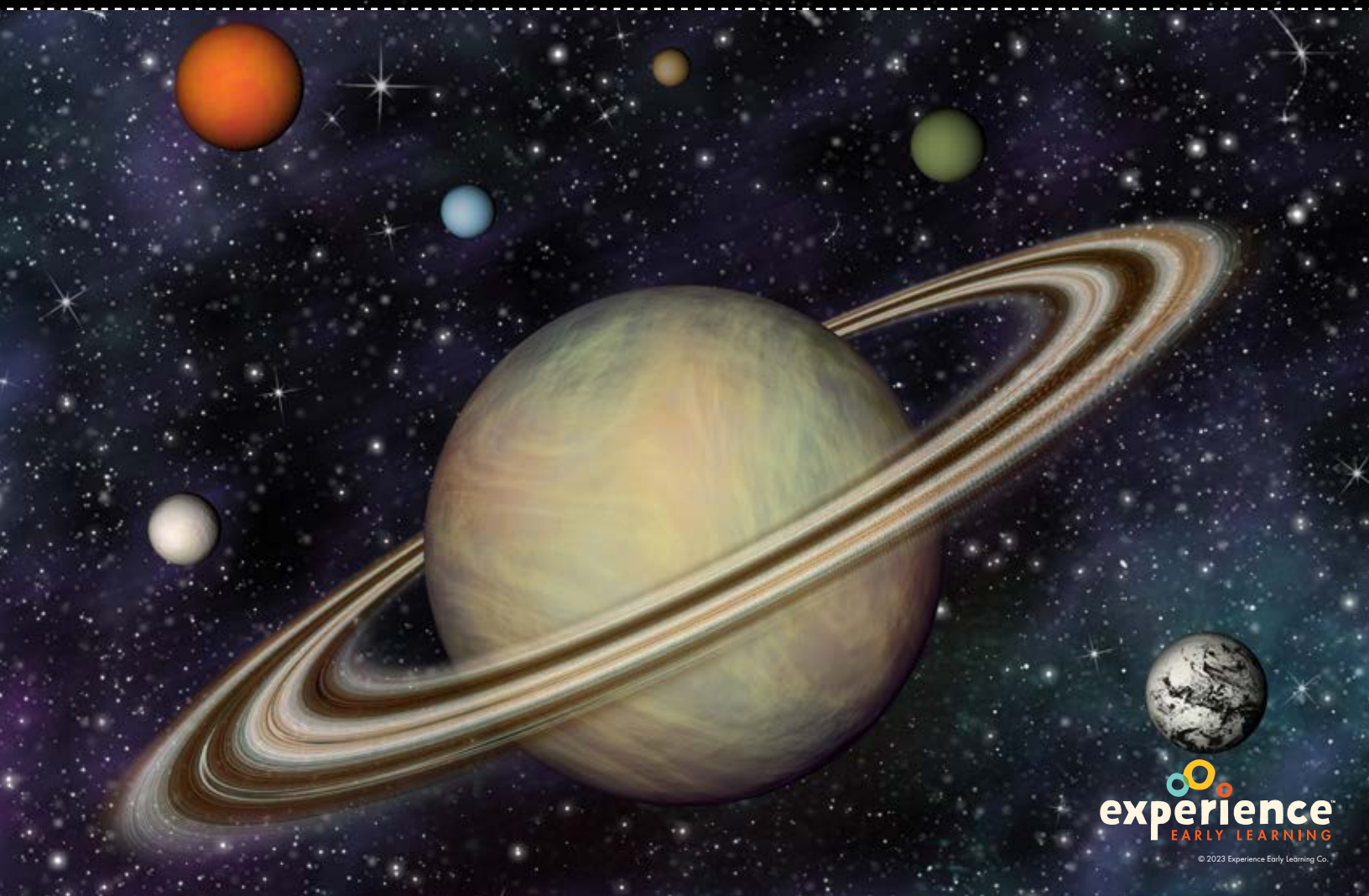
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DEF FILLER
1.5 OZ (42.5g)
Exp. 10/15/24
9/30/2023

Tea Mix
9/30/2023
228872003
2288
Hand a package of
Cinnamon C

12/31/2007
Creamed Spinach
50 ml, hot water, 5-10 min
Develop this mixture
50 ml repeated 40x, 5-10 min

Crackers
228872003
2288

Shredded Spinach

Beef Strak

CHEESE SPREAD
NET WT. 1.5 OZ.
Knead Before Opening
1/01/2004
1201
Place in cups, seal top
Pamper with respect or partner

Candy Coated Peanuts
9/30/2003
2088
Απαγορεύεται η χρήση

Cashews
9/30/2023
228872003
2288
Open Kettle

Beef Strak
Exp. 8/31/27
5204
4127303142

Orange Ade