

# Explorers

## “In Outer Space”



### Week 3 Materials

#### Index

[Materials Prep](#)

[Module 7 Materials](#)

[Module 8 Materials](#)

[Module 9 Materials](#)

[Compiled Materials \(Modules 7, 8, & 9\)](#)

### In Outer Space Materials Prep

For each *Explore It* theme, we'll let you know what materials are needed for each module (each day) of the theme, and we'll also let you know if there's materials prep you can do before the themed week kicks off. Ideally, it's great to do this prep together as a family!

Note that for nearly every activity, if you're missing a material or two, you'll likely be fine! These activities are designed to be flexible.

- We recommend that all Explorers (age 7-10) use an Explorer Notebook across the *Explore It* experience. If you can, get one they can decorate themselves!
- In Module 8, we will make short stop motion animation movies. We will use a free app, Stop Motion Studio, for this adventure. You can download the app on the app store and visit this [website](#) for more information. A full tutorial will be available in the module on the website.
- In Module 9, we'll be exploring ice! **Some time between now and Wednesday the 22nd, you can freeze some ice cubes for these experiments. We recommend freezing some regularly shaped cubes, and also filling any fun shaped pans, plastic containers, or sand molds that you might have.** For this activity, it is fun to freeze objects like sticks, pinecones, or small toys into the ice so your explorer can excavate them! If you have food coloring you can add that to water before you freeze it for your child to explore some color mixing! Food coloring can stain clothing though, so leave this out if you are not comfortable.

## Module 7 (Monday, July 20)

### Activities: Planets Warm-Up, Straw Rockets, & Create Your Own Planet

- 1 Large piece of paper or multiple pieces of regular-sized paper
- 1 Large piece of paper, cardboard, or poster board
- 1 Skinny (standard sized) straw
- 1 Wider straw or an index card or quarter piece of paper
- Markers, crayons, or colored pencils
- Pencil
- Recycled materials, such as cardboard, egg cartons, yogurt containers, etc.
- Scissors
- Tape and/or glue
- *Optional: Assorted craft supplies (craft sticks, pipe cleaners, stickers, construction paper, etc.)*

## Module 8 (Tuesday, July 21)

### Activities: Rovers Research, Design Your Own Mars Rover, & Stop Motion Animation

#### Animation

- 1 Laptop or tablet
- 1 Smartphone, iPad, or tablet (with a camera)
- 2 Pieces of paper or an Explorer Notebook
- Assorted craft materials: craft sticks, straws, aluminum foil, toothpicks, rubber bands, cotton balls, pipe cleaners, yarn or string, etc.
- Glue
- Markers, crayons, or colored pencils
- Pencil or pen
- Recycled materials: tissue box, egg carton, yogurt container, cardboard, shoebox, paper towel and toilet paper rolls, etc.
- Scissors
- Stop Motion Studio (free app)
- Tape
- Web browser (Google Chrome, Safari, etc.)
- *Optional: Small toys or figurines*

## Module 9 (Wednesday, July 22)

### Activities: Constellations, Design Your Own Star Projector, & Icy Explorations

- 1 Flashlight or phone flashlight
- 1 Magnifying glass OR camera/phone with zoom
- 1 Piece of paper or an Explorer Notebook
- Assorted craft supplies, such as string, rubber bands, pipe cleaners, craft sticks, paper clips, brass fasteners, etc.

- Assorted tools, such as brushes (paint or oil brushes), scoops, tongs, turkey baster, eye dropper, screwdrivers, small hammers, etc.
- Pencil or pen
- Recycled items, such as toilet paper tubes, scrap paper, egg cartons, cereal boxes, yogurt containers, etc.
- Salt
- Scissors
- Sugar
- Tape and/or glue
- Thumb tack, push pin, or something with a sturdy and small point for making holes (stars) in various materials
- Water, warm or cold or both! - in bowls or spray bottles
- *Optional: Aluminum foil*
- *Optional: Kool Aid or drink mix, food coloring, chalk, washable paint*
- *Optional: Marker, crayons, or colored pencils*

## **Compiled Materials, Modules 7, 8, & 9 (July 20-22)**

- 1 Laptop or tablet
- 1 Large piece of paper or multiple pieces of regular-sized paper
- 1 Large piece of paper, cardboard, or poster board
- 1 Skinny (standard sized) straw
- 1 Smartphone, iPad, or tablet (with a camera)
- 1 Wider straw or an index card or quarter piece of paper
- 1 Flashlight or phone flashlight
- 1 Magnifying glass OR camera/phone with zoom
- 1 Piece of paper or an Explorer Notebook
- 4 Pieces of paper or an Explorer Notebook
- Assorted craft materials: craft sticks, straws, aluminum foil, toothpicks, rubber bands, cotton balls, pipe cleaners, yarn or string, etc.
- Assorted tools, such as brushes (paint or oil brushes), scoops, tongs, turkey baster, eye dropper, screwdrivers, small hammers, etc.
- Recycled materials: tissue box, egg carton, yogurt container, cardboard, shoebox, paper towel and toilet paper rolls, cereal boxes, etc.
- Markers, crayons, or colored pencils
- Pencil or pen
- Scissors
- Tape
- Glue
- Salt
- Sugar
- Thumb tack, push pin, or something with a sturdy and small point for making holes (stars) in various materials

- Water, warm or cold or both! - in bowls or spray bottles
- Stop Motion Studio (free app)
- Web browser (Google Chrome, Safari, etc.)
- *Optional: Aluminum foil*
- *Optional: Kool Aid or drink mix, food coloring, chalk, washable paint*
- *Optional: Marker, crayons, or colored pencils*
- *Optional: Small toys or figurines*