

# Pinwheel Galaxy

## Shopping and Preparation List

**Adapt this NASA activity for your needs!**

### In-Person Library or Outreach Program

#### Material List (per patron):

- A copy of the [Pinwheel Galaxy Printout](#)
- Chenille stem (also known as a pipe cleaner)
- A popsicle stick, chopstick, or pencil

#### Material List (for the entire group):

- Hole punch or push pin (having multiple that patrons can share is helpful)
- Table for workspace
- (Optional): Video resources:
  - [NASA video: "What is a galaxy?"](#)
  - [NASA video: Are All Galaxies the Same?](#)
- (Optional): Computer, internet, and projector to show the videos

#### Preparation:

- Print 20 copies (or however many people you are estimating will attend the program) of the [Pinwheel Galaxy Printout](#) on cardstock if possible.
  - Consider cutting out some of the templates and punching holes in them before the program for younger patrons.
- Prepare a workspace with a table, the Pinwheel Galaxy Printouts, and craft materials.
- (Optional) Set up the computer and projector for patrons to view the NASA videos before or after they make their Pinwheel Galaxy crafts.



Pinwheel Galaxy materials

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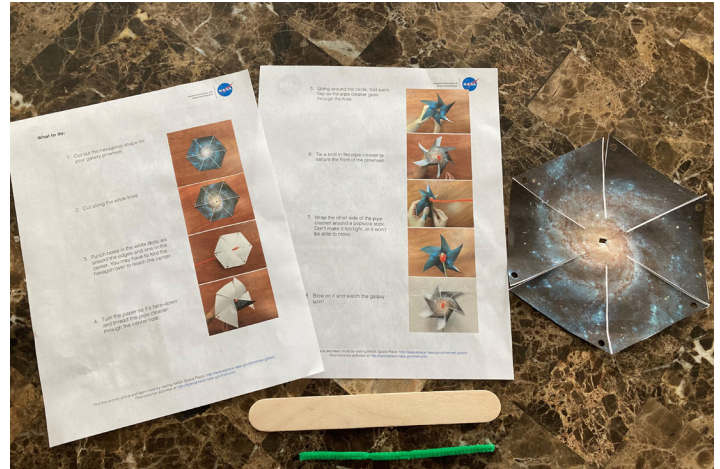
# Take & Make Kits

## Materials for each kit:

- A copy of the [Pinwheel Galaxy Printout](#) (printed on cardstock, if possible)
- Chenille stem (also known as a pipe cleaner)
- A popsicle stick, chopstick, or pencil
- Container to hold supplies, such as a paper bag or large envelope.

## Preparation:

- Download the [Pinwheel Galaxy Printout](#)
- Print pages 1-3 double-sided on letter paper. Print page 4 single-sided, in color and on cardstock, if possible.
- Cut out the template on page 4, making cuts down the white lines.
- Use a hole puncher to punch holes in the six white dots around the edges of the page 4 template and one in the center.
- Place the printed materials and craft materials in the paper bag or large envelope for patrons to pick up and take home.



Take and Make kit