



DAWN ACTIVITY LEADER GUIDE

BUILD YOUR OWN DAWN SPACECRAFT

Goal:

Build your own model of the Dawn Spacecraft.

Estimated time:

40-60 minutes

Who to do it with:

Ages: 5-Adult

Numbers: 1 or more!

What you need:

Per participant

- 1 copy of the spacecraft model on card stock
- 4 bamboo barbecue skewers
- Scissors
- Glue / Tape

Per group

- 1 copy of the assembly instructions

Advanced preparation:

1. Go to <http://dawn.jpl.nasa.gov/getInvolved/ye.asp> and download the spacecraft model, assembly instructions, and photo release form (optional).
2. Make copies of the spacecraft model (cardstock works best).

How to do it:

1. Cut out the spacecraft model.
2. Follow the assembly instructions.
3. Take a picture of yourself or your group with your models.

Tip: Make your own model ahead of time.

Optional:

4. Have parents/guardians complete the photo release form.
5. Send your photo and photo release form(s) to askdawn@mcrel.org
6. Visit the Dawn Young Engineers Gallery (in a few weeks) to see your photo!

Why do it:

This model shows the cool features of the Dawn Spacecraft: the Bus Structure to hold the instruments, super efficient ion engines that allow travel to two different destinations (protoplanet Vesta and dwarf planet Ceres), High Gain Antenna to return data to Earth, and signature Solar Arrays.