



## DAWN ACTIVITY LEADER GUIDE

### VESTA FLIPBOOK

#### Goal:

Make an animated book to watch Vesta spin.

#### Estimated time:

10-20 minutes

#### Who to do it with:

Ages: 8-Adult

Numbers: 1 or more!

#### What you need:

- Stapler with staples
- Top (Optional)

Per participant

- Scissors
- A copy of the images (Black and white is fine, but color is fun, too!)

#### Advanced preparation:

1. Go to <http://dawn.jpl.nasa.gov/DawnKids/> and download the Vesta Flipbook instructions and images.
2. Print one copy of the second page for each participant.

#### How to do it:

1. If you have a top, spin it on a table top.
  - a. Ask participants to describe the motion.
  - b. Explain that this is an example of an object rotating.
  - c. Ask participants if they think that Vesta rotates or not.
2. In this activity, we will create an animated book to find out if Vesta rotates.
3. Follow the directions on the instructions page.
4. Encourage participants to flip front to back and back to front.
5. Ask participants to describe what they see when they flip it both ways.
6. Visit <http://dawn.jpl.nasa.gov/multimedia/videos.asp> to see other animations of Vesta.

#### Why do it:

Looking at pictures can tell you a lot. In this case, the book of images shows that Vesta is rotating. Determining Vesta's rotation rate helps us fly the Dawn spacecraft and gives us clues about Vesta's interior and dynamic history!