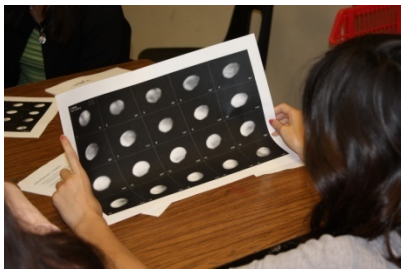
Your Mission: Make a Vesta Flipbook!

Here you go…

- Print out the images of Vesta (**1.**)
  - black and white is fine – the original images were also black and white
- Cut the 20 images of Vesta along the lines *with care (**2.**)*
- Order the images 1 to 20 and place in a neat stack (**3.**)

1.

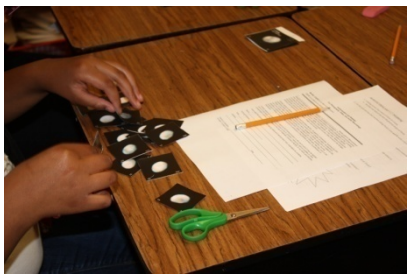


2.

Question: *What do you think the other numbers are associated with each image? Think geometry…*

- Staple one end of your flipbook
  - Does it matter which end?
- Flip your book and that of your friend (**4.**)
- What do you observe?

3.

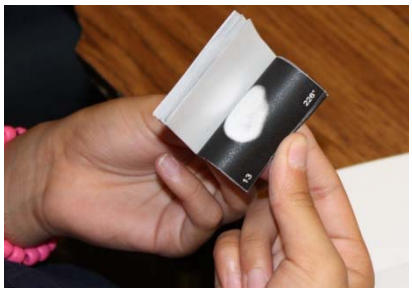


Questions to ponder:

1. What strategies help you observe Vesta best?
- Observing more closely or further away?
- From a certain angle?

  Other?

4.

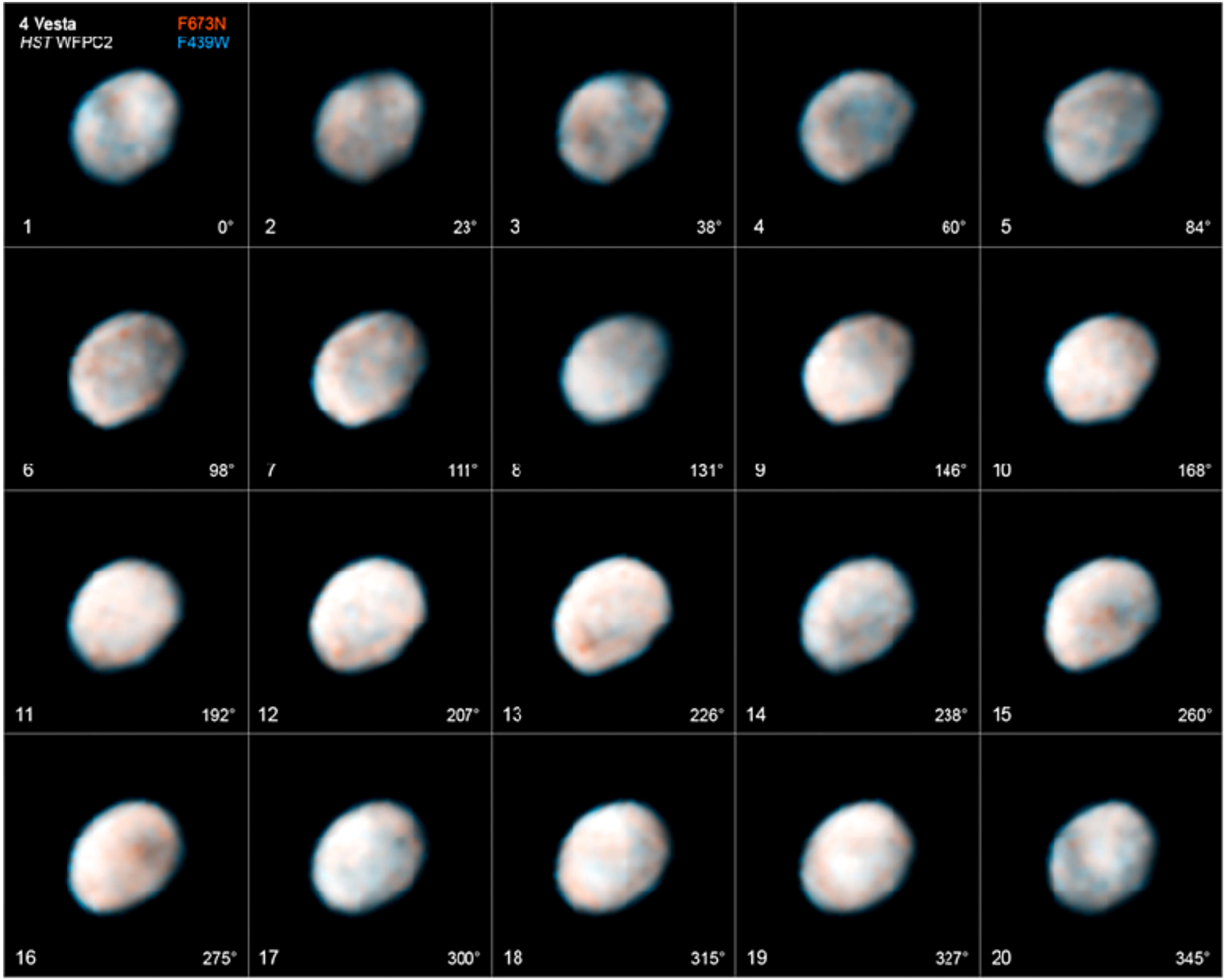


2. Discuss as a team where you believe Vesta's axis of rotation is. In other words, if Vesta were whirling around an imaginary pole, like a top spins, like the Earth does about the North and South Poles, where would that pole be located?
- Sketch possible axes (*axes = the plural of axis – your group has more than one idea? Sketch more than one axis*) of rotation on your first Vesta image.

3. If you had a chance to make your flipbook again, what would help?
- Who in your group gets the primo flipbook prize – more importantly why?

4. Brainstorm as a team: how might this compare to the ways that scientists develop techniques to make sense of data?

5. **Visit** **http://dawn.jpl.nasa.gov/multimedia/videos.asp** to see other animations of Vesta using the same images you worked with.
- **Try the one on the top right, called "Animation of Vesta" first – it will look very familiar!**


4 Vesta
HST WFPC2
F673N
F439W
1 0°
2 23°
3 38°
4 60°
5 84°
6 98°
7 111°
8 131°
9 146°
10 168°
11 192°
12 207°
13 226°
14 238°
15 260°
16 275°
17 300°
18 315°
19 327°
20 345°