West Virginia University
DEPARTMENT OF PHYSICS AND ASTRONOMY

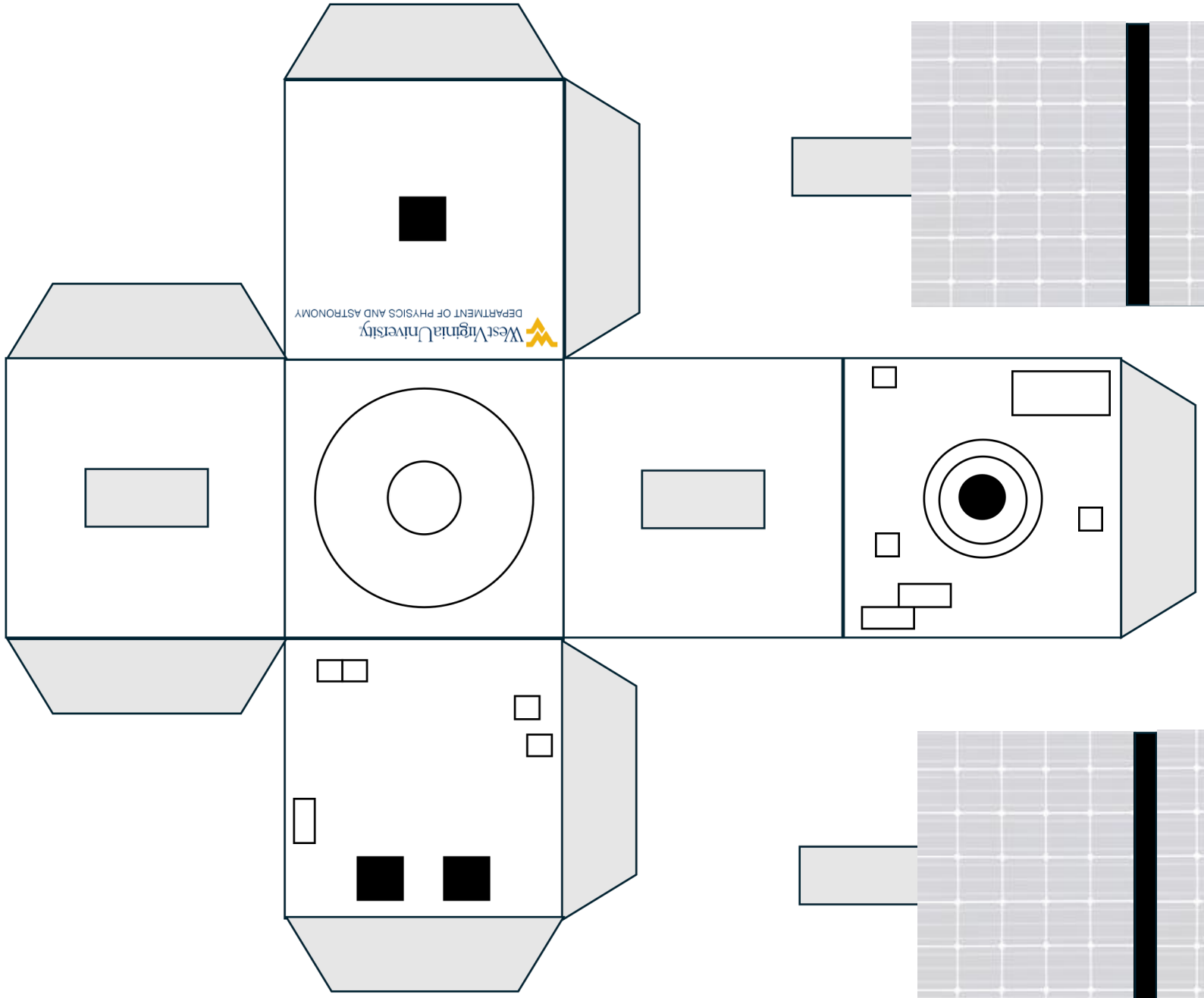
BUILD YOUR OWN SPACECRAFT

INSPIRED BY NASA'S MARS ATMOSPHERE AND VOLATILE EVOLUTION (MAVEN) MISSION

ABOUT THE SPACECRAFT ACTIVITY:

This spacecraft activity was designed and developed by postdoctoral researcher **Dr. Catherine Regan** for use at the 2025 Mars New Year Festival in Mars, PA. She is a member of Professor Christopher Fowler's space physics research group at West Virginia University and works on NASA's Mars Atmosphere and Volatile Evolution (MAVEN) mission. The activity was prepared for use in the Department of Physics and Astronomy by Miranda Heitz (Academic Program Assistant).

Let's Go!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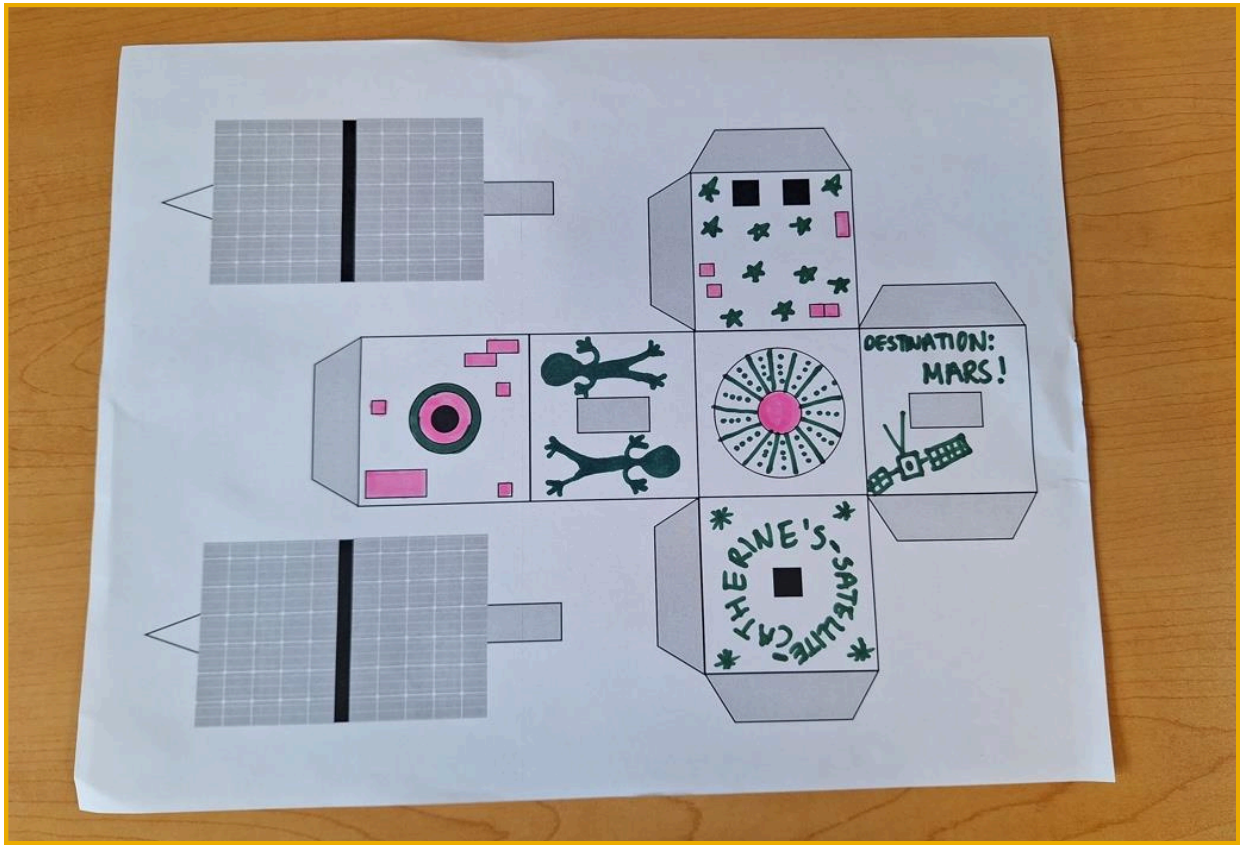
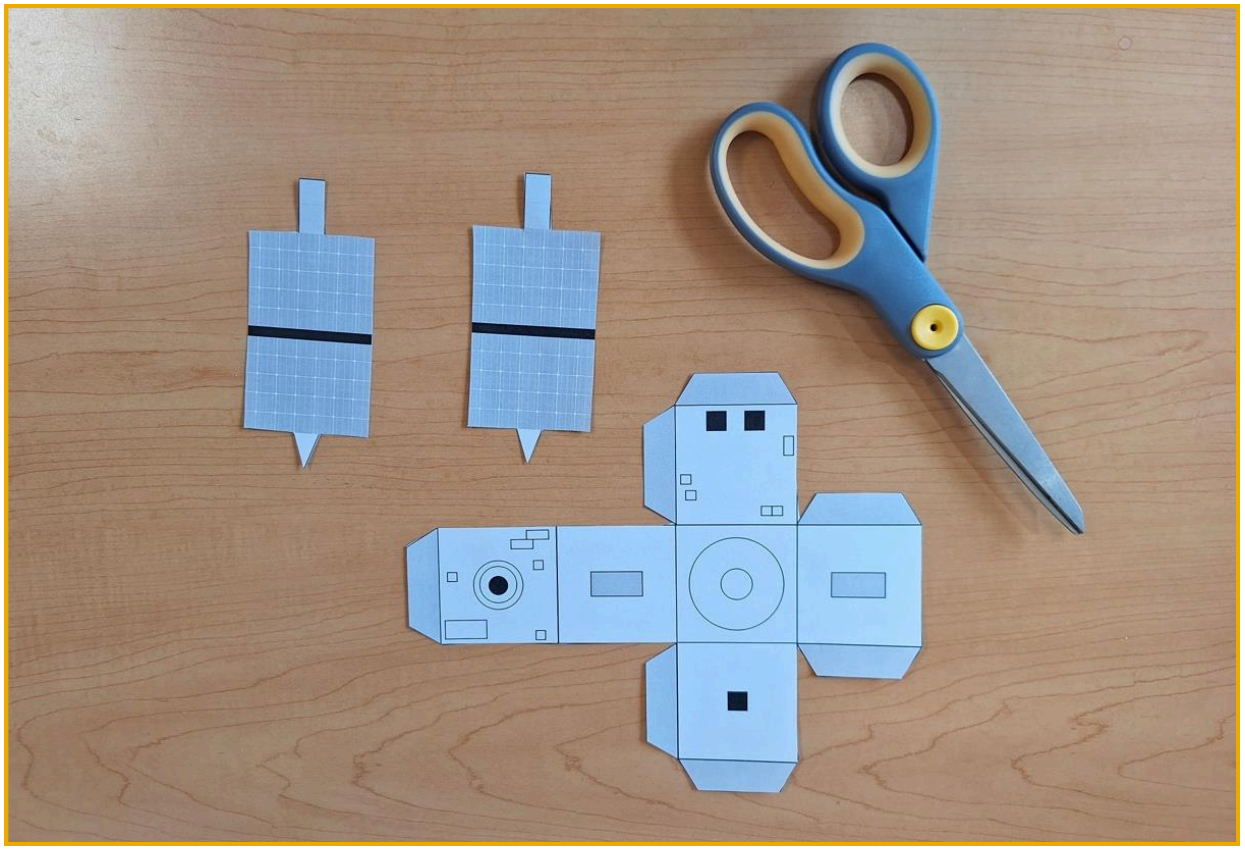
STEP 1:
Print and decorate your spacecraft!



Let's Go!

STEP 2:

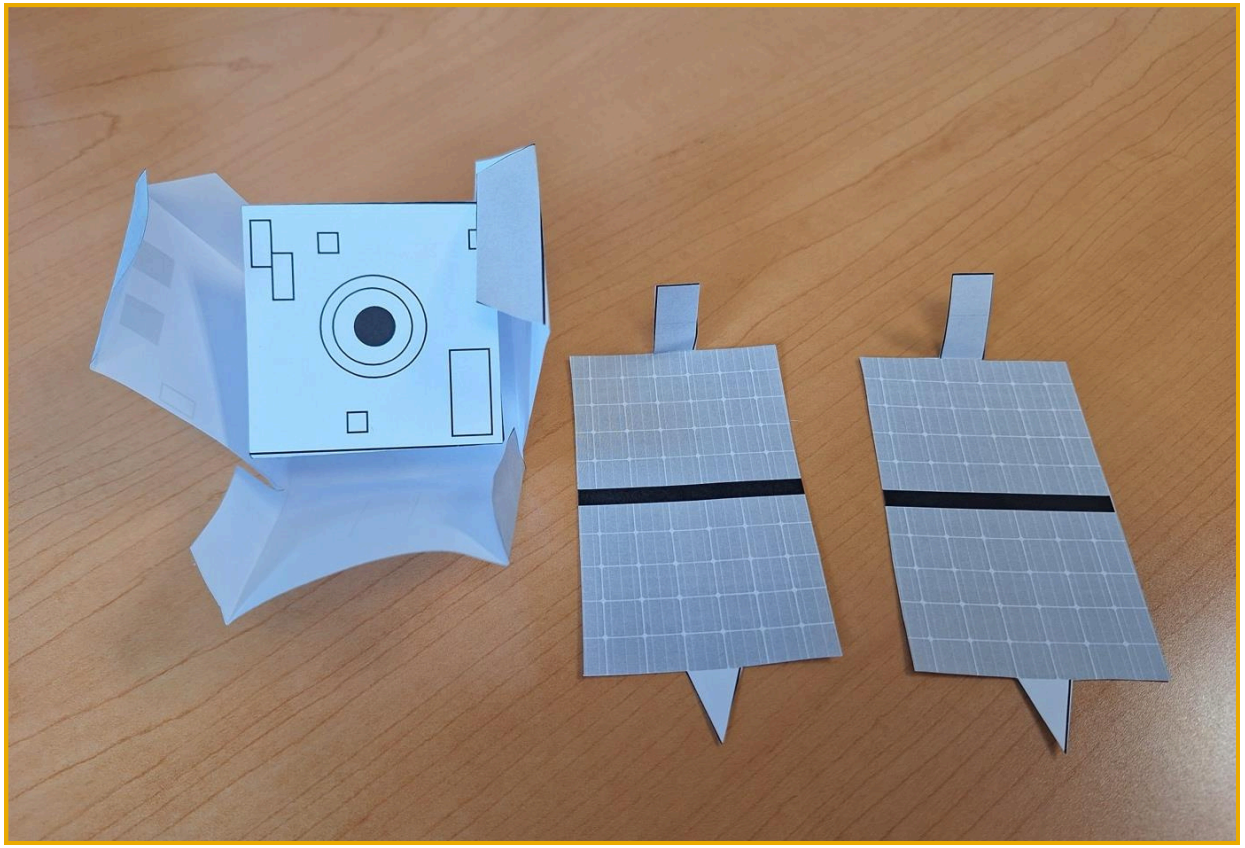
Cut out the 3 pieces. You now have the main spacecraft body and two solar panels.



Let's Go!

STEP 3:

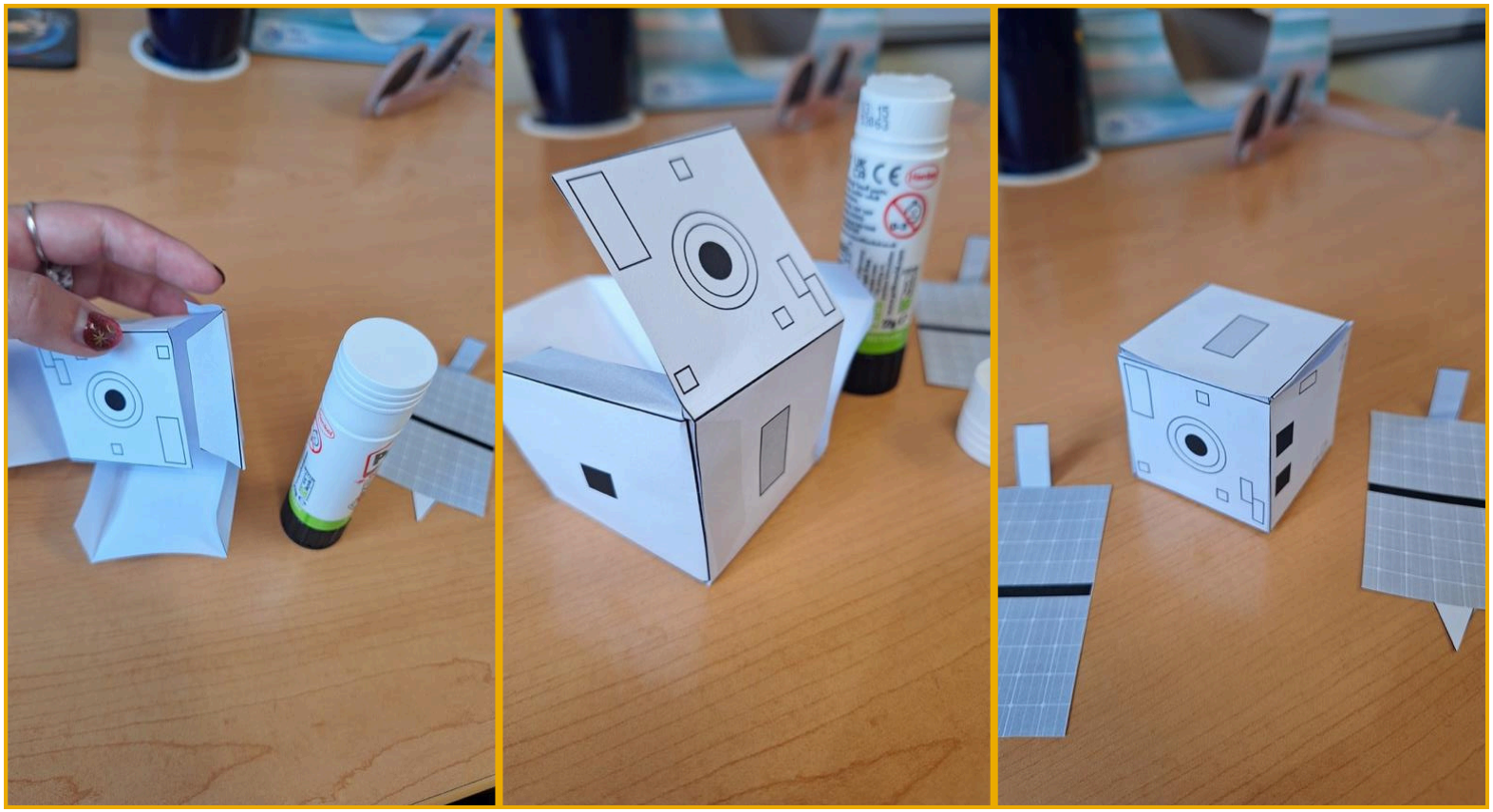
Fold along all the black lines on the main spacecraft, and two tabs on the solar panel.



Let's Go!

STEP 4:

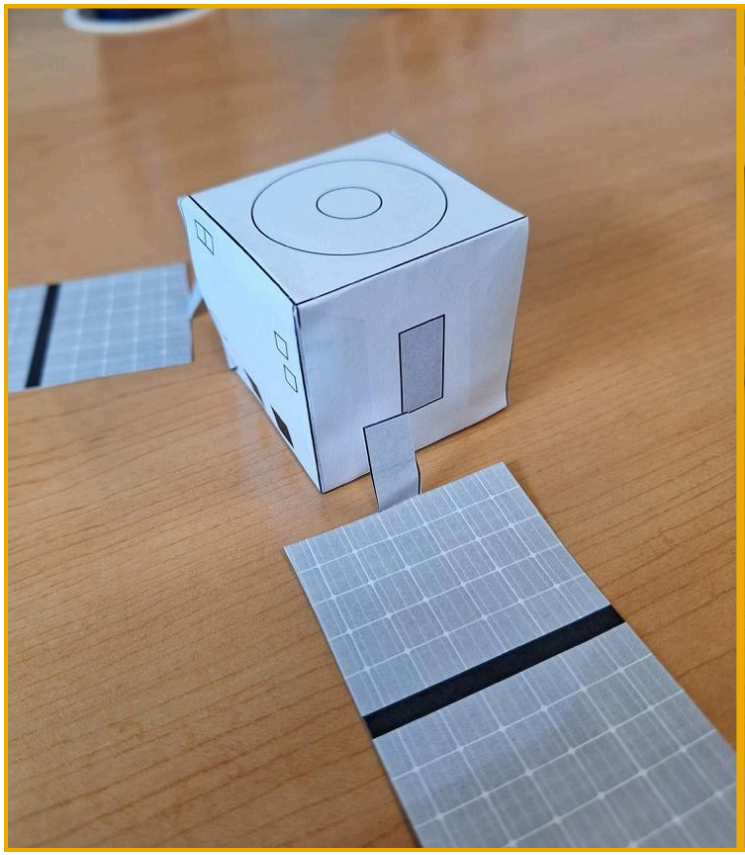
Glue along the grey edge tabs on the spacecraft body and fold inwards. Continue on all the tabs until you have a cube.

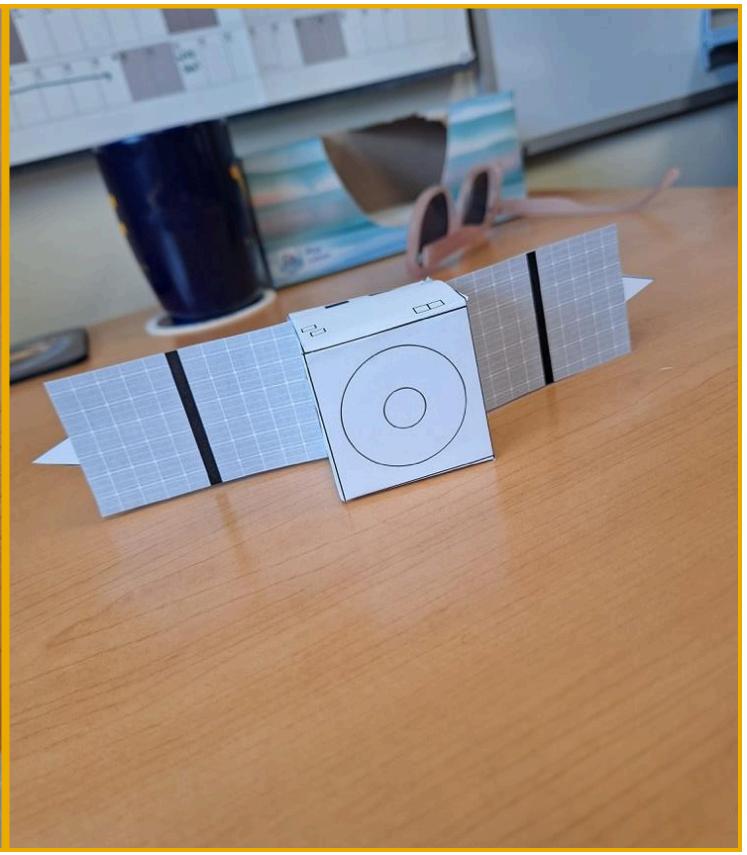


Let's Go!

STEP 5:

Glue the two tabs on the solar panels and stick to the grey squares on the main spacecraft body.





Let's Go!

STEP 6:

Add any extra decorations or components you like!

Let's Go!