OFFICIAL PAPER CRAFT
+ AR EXPERIENCE
APPROXIMATE SCALE: 1:30

PARKER SOLAR PROBE
A MISSION TO TOUCH THE SUN

NASA | JOHNS HOPKINS APPLIED PHYSICS LABORATORY
NASA's Parker Solar Probe is changing all we know about the Sun. Launched in 2018, Parker Solar Probe is humanity’s first-ever mission to a star, where it is directly exploring the Sun’s large atmosphere and making critical contributions to improving forecasts of major space-weather events that impact life on Earth.

Built by the Johns Hopkins Applied Physics Laboratory (APL) in Maryland, the spacecraft will eventually zoom to within just 3.9 million miles of the Sun’s surface, facing heat and radiation like no spacecraft ever has! Parker Solar Probe is flying close enough to the Sun to enter its magnetized atmosphere—called the corona—and study the regions where solar energetic particles are blasted into space.

It took years of research and testing to design and build a spacecraft for such a dangerous voyage. Protecting Parker Solar Probe and its instruments from the Sun’s heat is a 4.5-inch-thick (11.43-centimeter-thick) carbon-composite shield, which can withstand radiation equal to about 500 times the Sun’s radiation here on Earth. This shield is so effective that the instruments that lie in its shadow (called the umbra) operate at a comfortable 85 degrees Fahrenheit (29 degrees Celsius). Only a set of antennas (used to measure electric fields) and a small plasma detector brave direct sunlight.

Follow the instructions on these pages to build your own Parker Solar Probe! Model scale is approximately 1:30.

**COLOR IT**
Let your creativity take flight and color this paper craft how you want!

**SHARE IT**
Share your creation with us on social media using the hashtag #parkerpapercraft.

**GLUE HINT**
This paper craft is most easily put together with Elmer’s liquid multipurpose glue.

**SPACECRAFT DESIGN**
Learn more about the mission and spacecraft by visiting the Parker Solar Probe website at: parkersolarprobe.jhuapl.edu/.

**EXPERIENCE PARKER SOLAR PROBE**
Explore and manipulate the Parker Solar Probe spacecraft on your computer screen or access an augmented reality version of the spacecraft on your cell phone.

Need help? See the last page for instructions.
The shield will look like this.

1. Cut out inside
2. Cover
3. Cut
4. Fold
5. Apply glue (don't color)
Cut
Fold
Apply glue (don’t color)

Cut out inside

Cover
Cut
Fold
Apply glue
(don't color)

Cut out inside

Cover

Cover
Hint!
The wings should have a slight bend at the end.
Hint!
The tail should be at a slight angle.
Hint!
The tail should be at a slight angle.
Explore and manipulate Parker Solar Probe on your computer screen or scan the QR code to access an augmented reality version of the spacecraft on your cell phone!

**VIEW THE SPACECRAFT IN YOUR SPACE**

1. Scan QR code through the camera on your phone. Click View Spacecraft in Your Space.
2. Rotate phone around the room.
3. Move around the room to see different angles and sides of the spacecraft.