National Aeronautics and Space Administration

Psyche

Journey to a metal world

This poster celebrates the spirit and ingenuity of the people who have contributed to this mission's research, development, and execution. The spacecraft image is made from geometric forms symbolizing the diverse teams who made this mission possible. Each symbol corresponds to all the people, across different teams, each with their own unique skill set.

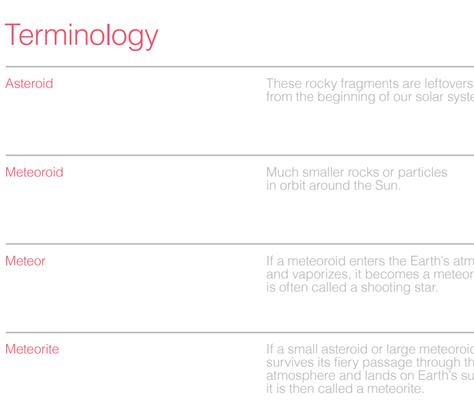
Terminology

Asteroid	These rocky fragments are leftovers from the beginning of our solar system.
Meteoroid	Much smaller rocks or particles in orbit around the Sun.
Meteor	If a meteoroid enters the Earth's atmosphere and vaporizes, it becomes a meteor, which is often called a shooting star.
Meteorite	If a small asteroid or large meteoroid survives its fiery passage through the Earth's atmosphere and lands on Earth's surface, it is then called a meteorite.
Comet	Cosmic snowballs of gas and dust that make sweeping orbits around our sun.

Symbol key

Payload Engineering	Every NASA science mission is equipped with a suite of high-tech instruments that gather scientific information. The Psyche spacecraft will carry a multispectral imager, a gamma ray and neutron spectrometer, and a magnetometer, and will conduct radio science using its radio telecommunications system. Collectively, these instruments will observe the asteroid up close to help scientists learn more about the history of the solar system.
Flight Systems	Spacecraft (also known as flight systems to engineers), are the foundation of every mission. A mixed group of engineers designs and plans every aspect of the spacecraft from its intricate design to its fabrication, software, testing, and supporting electronic systems.
Mission Systems	Once launched, it takes a diverse team of people to make a mission possible. Engineers, technical staff and scientists oversee all aspects of the Psyche mission. This team is responsible for the day-to-day operations, and performance of the spacecraft.
Project Management	Management of the design, building and operations of the spacecraft are key components of mission operations. This team, which includes experienced engineers, business managers, and schedulers ensures that the mission meets its goals and objectives.
Science Team	The science team is made up of science investigators, collaborators, and students who help define and conduct Psyche's science investigations. The team will manage and review data provided by the science instruments.
Public Outreach & Student Participation	The public outreach and student teams are responsible for educating the general public about the Psyche mission and its science goals and discoveries. The public outreach team includes communications experts, graphic artists, photographers, videographers, and other creative professionals. The Psyche mission engages student interns and capstone participants from around the country who support the mission through academic and creative projects.

Spacecraft journey



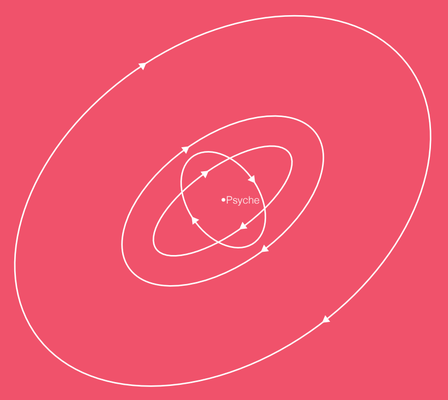
Orbiting the Psyche asteroid

www.nasa.gov
psyche.asu.edu

Psyche

Spacecraft journey

Orbiting the Psyche asteroid



Journey to a metal world

Deep within the terrestrial planets, including Earth, scientists infer the presence of metallic cores, but these lie far below the planets' rocky mantles and crusts. The Psyche asteroid is the only known place in our solar system where we can examine directly what may contain metal from the core of a planetesimal–the first building block of a planet. NASA's Psyche mission will explore the Psyche asteroid, to map and study its properties and provide scientists with new understanding of our own planet's interior. Insights from the mission will offer scientists a unique window into planet formation and the opportunity to investigate a previously unexplored type of world.

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