

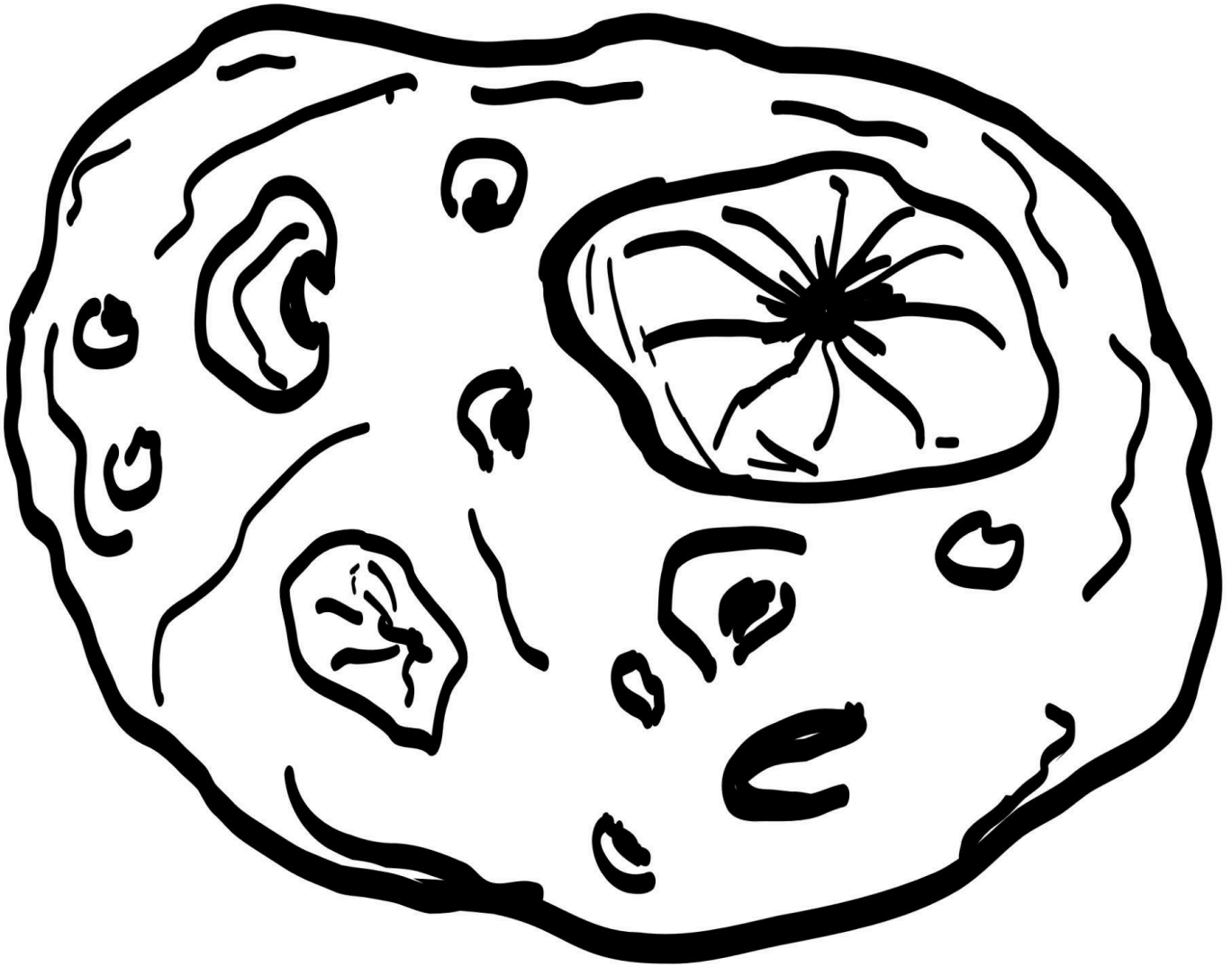
Mission To 16 Psyche

Activity Booklet



Launching in 3... 2... 1....

What is 16 Psyche?



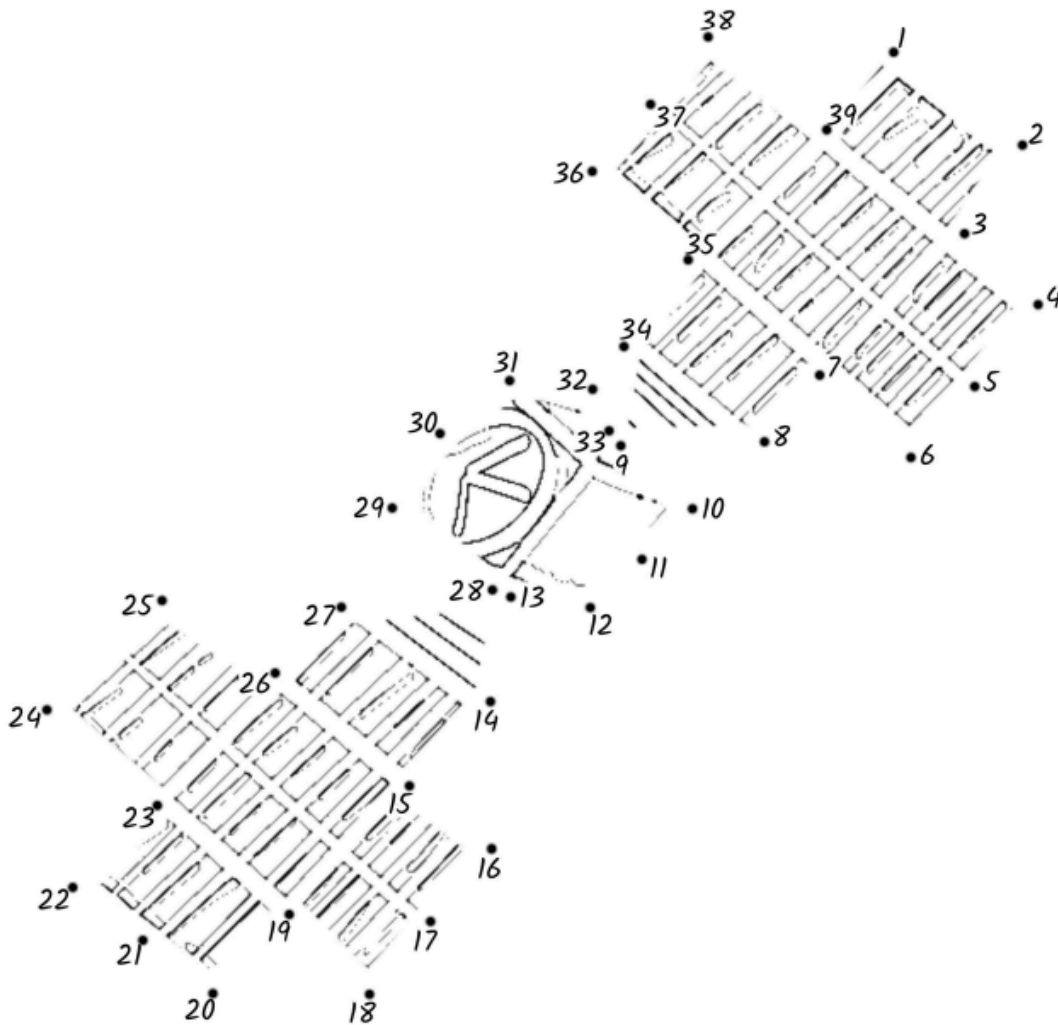
16 Psyche is an asteroid in space made largely of metal, which is what makes it special! It was named after the Greek Goddess of the Soul, Psyche.

Color in the asteroid!

The Psyche Spacecraft:

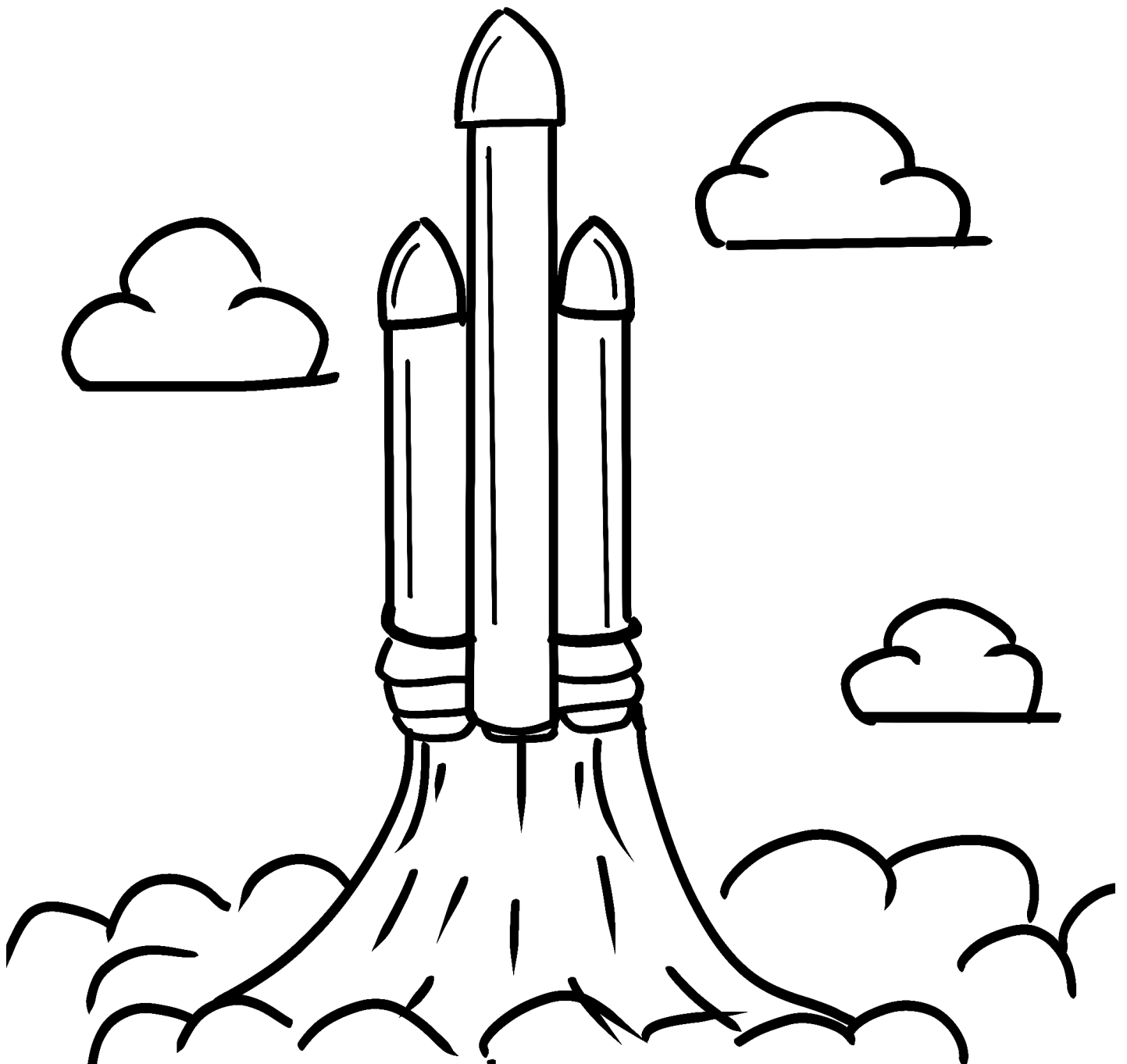
On the spacecraft there is a multispectral imager, gamma-ray and neutron spectrometer, magnetometer, and a gravity science experiment that will help us understand more about 16 Psyche!

Connect the dots!



Psyche Launch Party!

The SpaceX Falcon Heavy rocket launched on October 13, 2023 with the Psyche Spacecraft aboard and it will take approximately 6 years until we reach the asteroid!



Mission Component Word Search

W U A Z T J D O L L Y C R X P M H G A D
T J S R X F A S P M V V A R O X A X F Q
A E A Z V A N A S Z E T Z M Z Z H H G W
M T N V U R P W F P X P Z R E B V I L W
G A M N X F P D R E T E Y K V R G Q A Y
Q K G L L E I O R O C N H L E H A S U J
R T C N H S P E C T R O M E T E R S N P
R X I C E U U X A Z O C A C W X R G C O
W H Y B L T F A R C E C A P S G B G H Z
L S J S R K O N N S X N G C Z O S A X Q
P I I U C O S M S Y S W B V O X C O J M
J O X C N C R L E G N T R Q S D S N E F
N X L U P P E J Z T D W M V U H R W F G
N A N U R M T U C J E T W I B M A T P Y
L N D J F R S D G H D R P H D S Z X O T
K T U H G T U E V V U Y H R I Z N H Y T
A V L X J B R Q K S H P A N E L S Z Q Z
E W K O A Z H Z Y A P L R E X X S B O M
I R J W N X T B K D O I K W V U M X L V
A G N A T R U S O S Y S V I V D V N F M

Cameras

Jet

Launch

Solar

Magnetometer

NASA

Orbit

Spacecraft

Panels

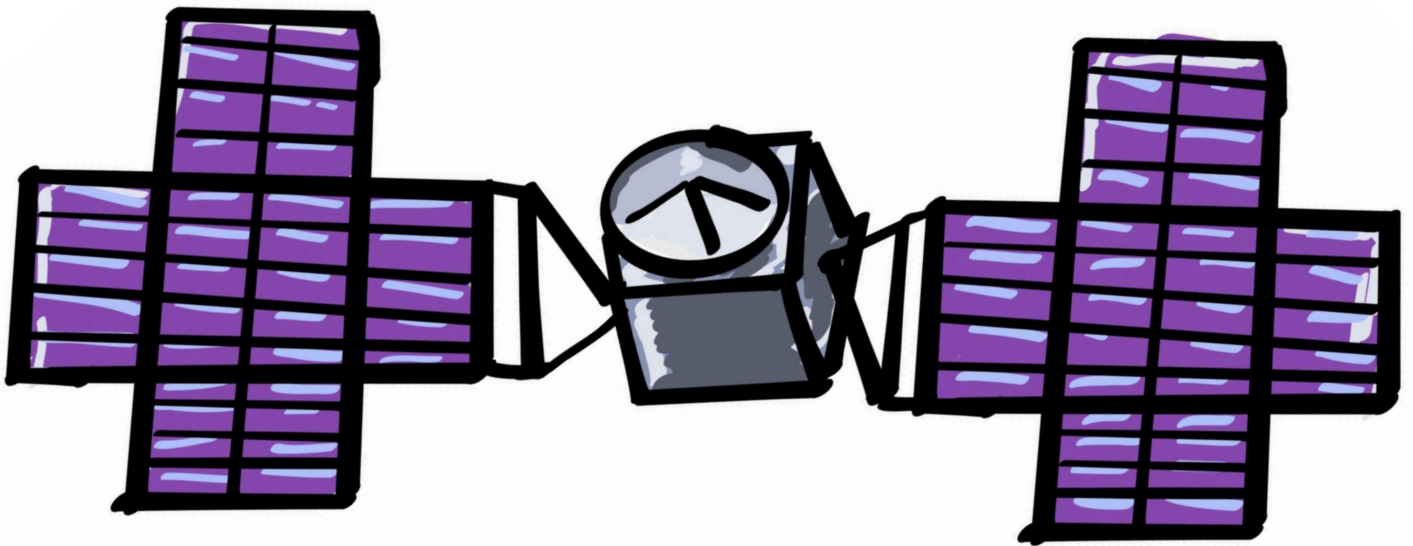
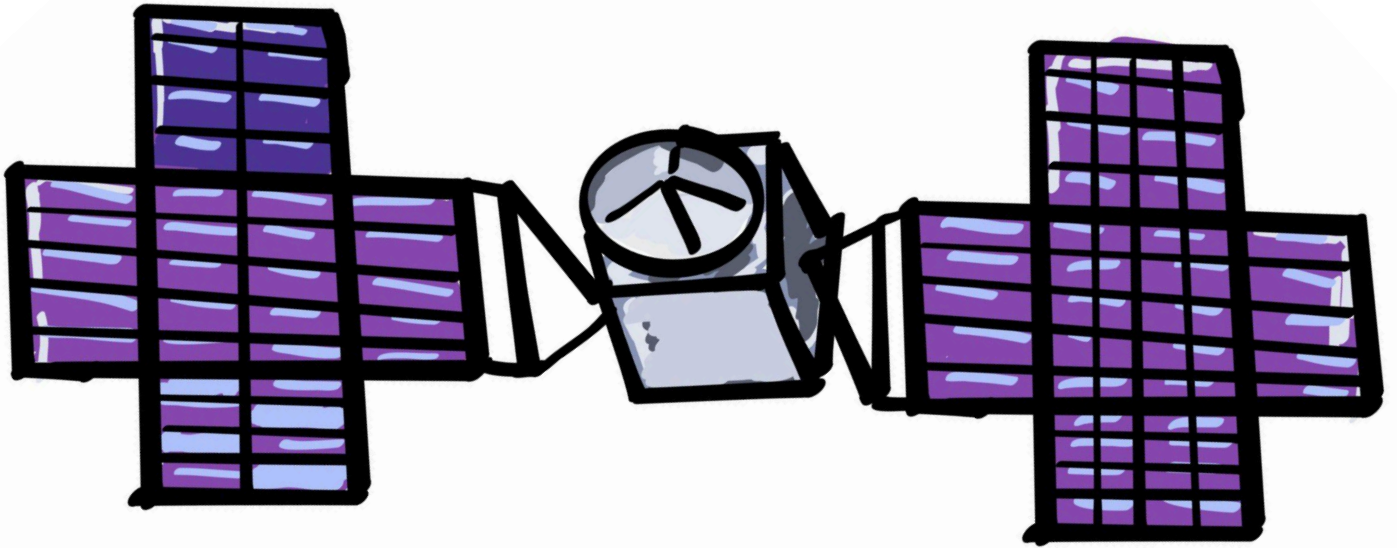
Propulsion

Psyche

Spectrometer

Thrusters

Spot the Differences in the Spacecrafts!



Hint: There are five differences!

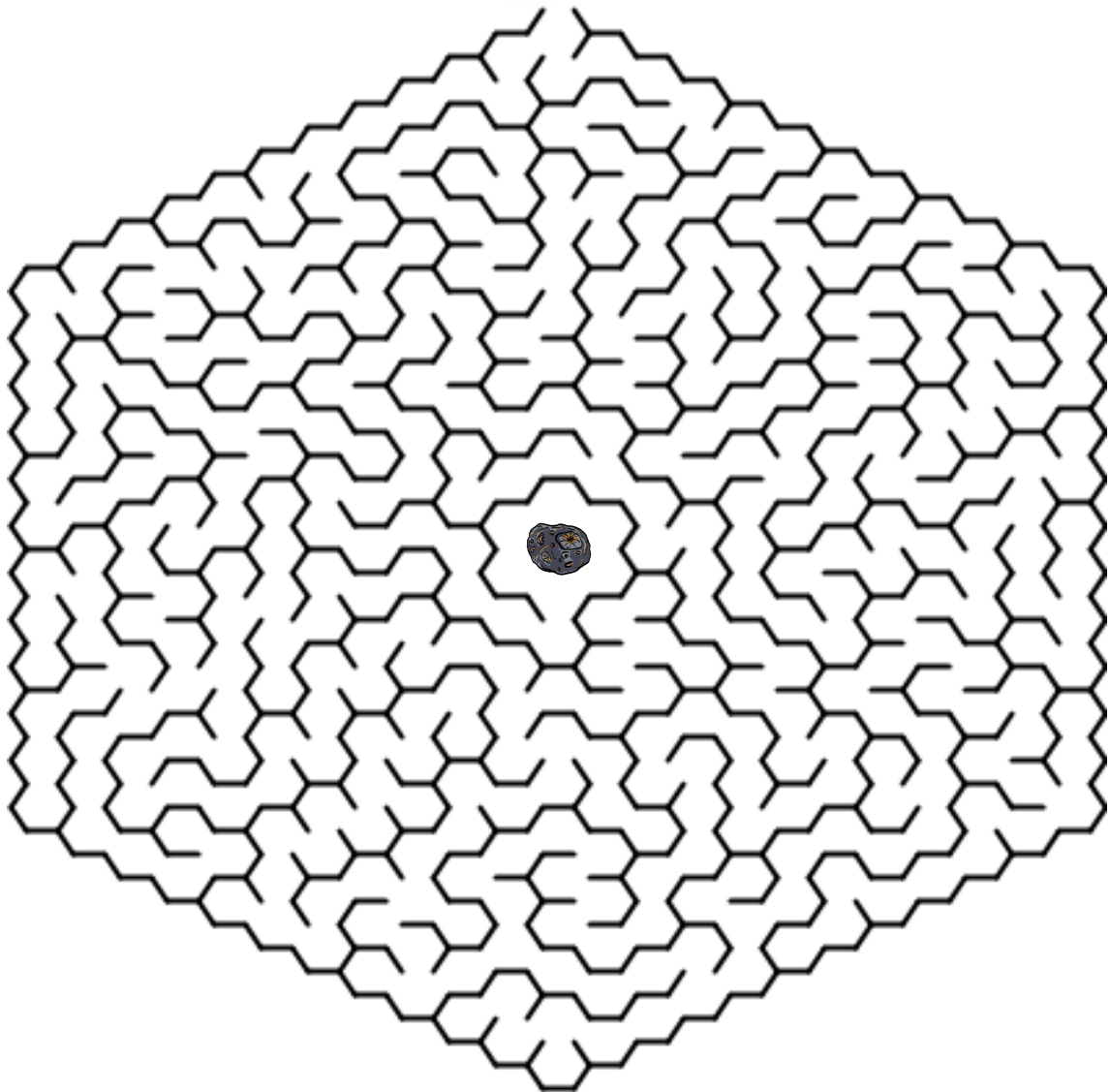
Draw Your Own Spacecraft!

What would your spacecraft look like?

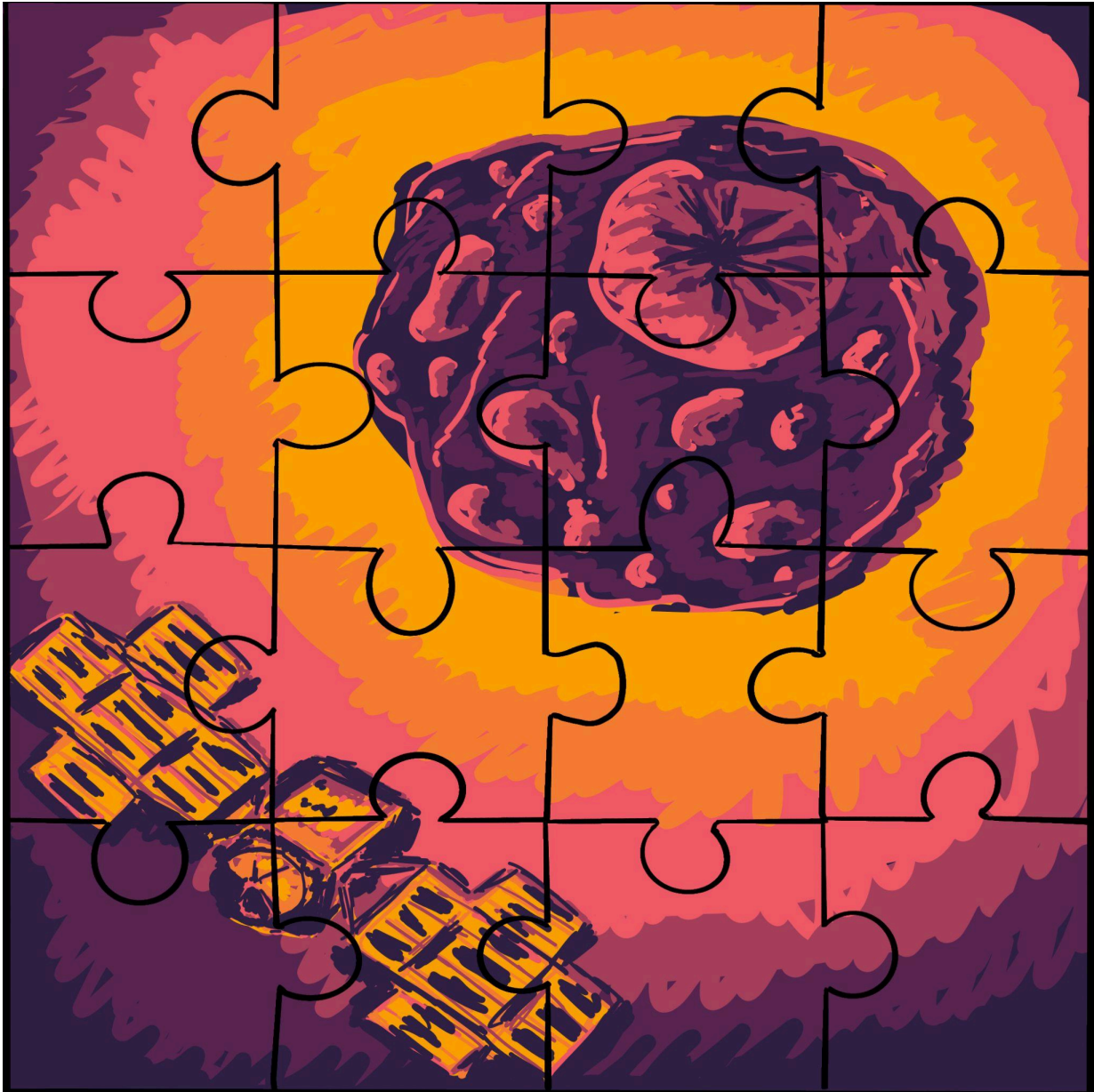
Why are we going to 16 Psyche?

Scientists believe 16 Psyche is the building block of a planet, called a planetesimal! Since the Earth's core is not possible for us to study, we are sending a spacecraft to 16 Psyche to learn more.

Can you find the path to Psyche?



16 Psyche Puzzle



Challenge:

How quickly can you put the pieces back together?

Answer Sheet:

W U A Z T J D O L L Y C R X P M H G A D
T J S R X F A S P M V V A R O X A X F Q
A E A Z V A N A S Z E T Z M Z Z H H G W
M T N V U R P W F P X P Z R E B V I L W
G A M N X F P D R E T E Y K V R G Q A Y
Q K G L L E I O R O C N H L E H A S U J
R T C N H S P E C T R O M E T E R S N P
R X I C E U U X A Z O C A C W X R G C O
W H Y B L T F A R C E C A P S G B G H Z
L S J S P K O N N S X N G C Z O S A X Q
P I I U C O S M S Y S W B V O X C O J M
J O X C N C R L E G N T R Q S D S N E F
N X L U P P E J Z T D W M V U H R W F G
N A N U R M T U C J E T W I B M A T P Y
L N D J F R S D G H D R P H D S Z X O T
K T U H G T U E V V U Y H R I Z N H Y T
A V L X J B R Q K S H P A N E L S Z Q Z
E W K O A Z H Z Y A P L R E X X S B O M
I R J W N X T B K D O I K W V U M X L V
A G N A T R U S O S Y S V I V D V N F M

