Psyche Crosswords

Addison Rizer
Psyche Inspired – Iron Class
2018-2019
Functional Crosswords
Print Them Out and Find the Answers on Psyche.Asu.Edu
Psyche Crossword
All answers can be found by exploring psyche.asu.edu!

Across
3 program in which undergraduate students share Psyche with the public through creative works
5 discoverer of Psyche
6 Goddess of the Soul
7 Psyche's Principal Investigator
8 Psyche's diameter as a perfect sphere is as long as this state
12 Psyche likely survived a few of these
15 used to determine Psyche's composition along with thermal inertia
16 a sophisticated new laser technology
17 If Psyche were in Arizona, it would stretch between Phoenix and this city.
19 Psyche was selected for this NASA program
20 understand a previously unexplored building block of planet formation: ___

Down
1 Psyche spacecraft is the size of this sports court
2 the core of Psyche is thought to be this
4 Psyche spacecraft will use this to travel to the asteroid
9 type of radio science used by Psyche
10 other name for the body of the spacecraft
11 number of phases of typical space mission
13 one year on Psyche lasts this many Earth years
14 number of orbits the spacecraft will make around Psyche
18 Using ___ instead of radio allows the spacecraft to communicate more data in a given amount of time.
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**Across**

1. Psyche lies between Mars and ____
4. Arranged in a cross formation on the Psyche spacecraft
7. One of the mission’s science goals is to look inside ____ planets
9. Designed to detect and measure the remnant magnetic field of Psyche
10. The type of propellant the Psyche spacecraft will use
11. The orbit around Psyche for topography
12. The body of the spacecraft is as tall as one of these
13. The season the Psyche spacecraft is set to launch in 2022
15. The part of Psyche stripped away by violent impacts
16. The Psyche spacecraft will carry a ___ imager

**Down**

2. The Deep Space Optical Communication technology will encode data in ____ to communicate between the spacecraft and Earth
3. This on Psyche takes four hours and twelve minutes
5. Psyche follows an orbit at three of these
6. The university leading the Psyche mission
8. Psyche is the ____ mission selected for NASA’s Discovery Program
14. The Psyche spacecraft will fly by this planet in 2023
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Crossword Poems
A Series of Crossword Poems Inspired by Psyche
The Psyche asteroid, named after the Goddess of Soul by discovered Annibale de Gasparis. This was the sixteenth asteroid discovered by de Gasparis which is why it’s often titled (16) Psyche.
The Psyche spacecraft will orbit the asteroid four times, each orbit with the goal to gather information about Psyche and how it might reflect the characteristics of the core of Earth and the development of terrestrial planets.
The asteroid Psyche is thought to have experienced a few hit-and-run collisions, stripping the mantle from the protoplanet and leaving behind only the metallic core.
[The Psyche mission will utilize x-band radio telecommunication systems to measure Psyche’s gravity field, which, combined with topography images, will provide information to the interior of Psyche’s structure.]