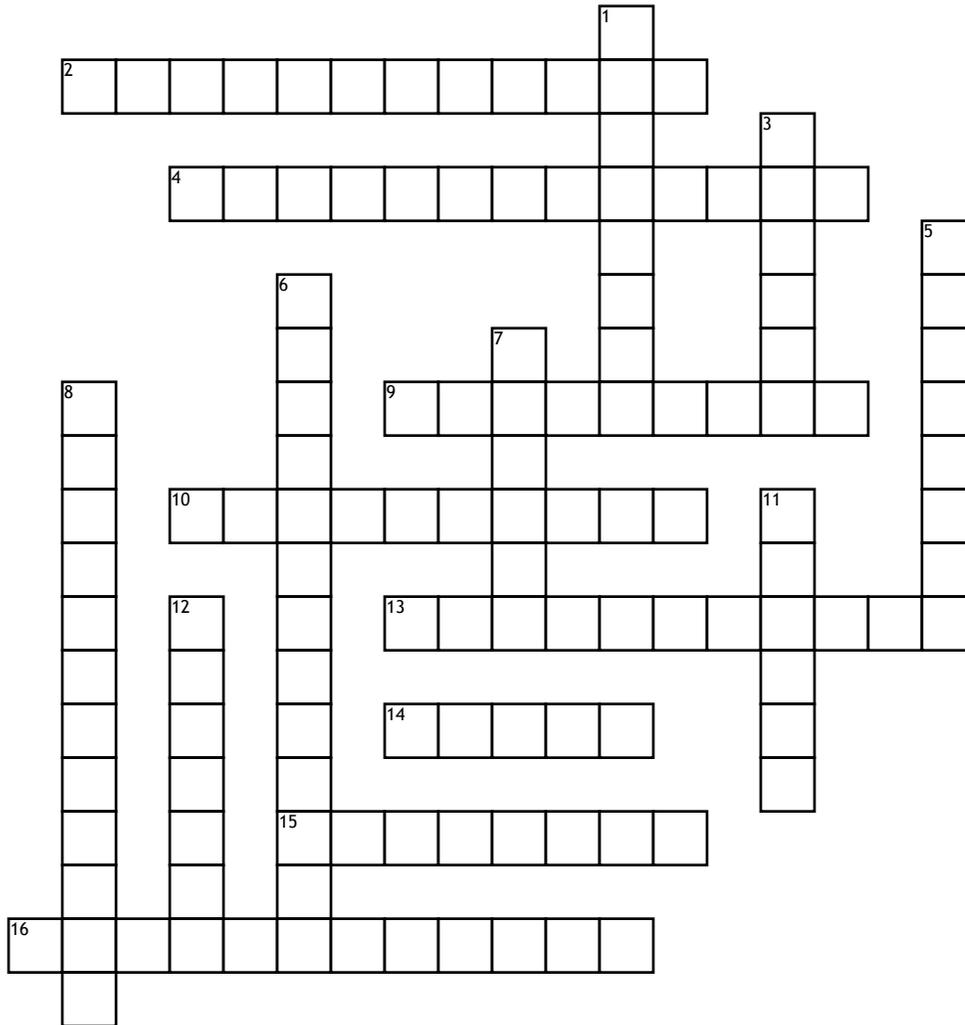


Space Systems



Across

- 2. The number of protons in a nucleus is referred to as...
- 4. What stars can explode in a Supernova explosion at the end of their lives?
- 9. Negatively charged particles that surround the nucleus of an atom.
- 10. Kepler's first law states that planets orbit around the sun in an _____ orbit.
- 13. What information does the spectral pattern (a star fingerprint) reveal about stars.
- 14. Johannes Kepler was an assistant to _____

- 15. Substances that can't be broken down into simpler substances by chemical or physical means.
- 16. The _____ of an ellipse can tell us how closely it resembles a circle.

Down

- 1. When a star is moving away from us, it exhibits _____
- 3. What subatomic particle determines the identity of an atom?
- 5. _____ is the most abundant element in the Universe.

- 6. When a wave source is moving toward or away from an object, the wavelength changes, this phenomenon is known as _____
- 7. In nuclear fusion, Hydrogen fuses to become _____.
- 8. About 90% of stars on the H-R diagram are _____.
- 11. Sound must have _____ to move through.
- 12. Nucleus of an atom that has the same number of protons but varying numbers of neutrons

Word Bank

- | | | | |
|----------------|---------------|-----------------|--------------|
| Proton | Atomic Number | Electrons | Eccentricity |
| Composition | Brahe | Main Sequence | Elliptical |
| Doppler effect | Isotope | Hydrogen | Matter |
| Elements | Red Shift | High Mass Stars | Helium |