

# Wonders of Astrophysics

Astrophysics · Answer Key · 8 Questions

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**1. Which element is the main fuel powering the nuclear fusion process inside our Sun?**

**A) Hydrogen**

B) Iron

C) Carbon

D) Oxygen

**2. What is the boundary around a black hole beyond which nothing, not even light, can escape?**

A) Photon Belt

**B) Event Horizon**

C) Accretion Disk

D) Singularity Zone

**3. What do astrophysicists call a rapidly rotating neutron star that emits beams of radiation from its poles?**

A) Quasar

B) Supernova

**C) Pulsar**

D) Red Giant

**4. In astrophysics, what does a light-year measure?**

A) Time

**B) Distance**

C) Brightness

D) Mass

**5. What shape or type of galaxy is our home galaxy, the Milky Way?**

A) Elliptical galaxy

**B) Barred spiral galaxy**

C) Irregular galaxy

D) Lenticular galaxy

**6. What thermal radiation left over from the early universe provides key evidence for the Big Bang theory?**

A) Solar Flare Radiation

**B) Cosmic Microwave Background**

C) Gamma-Ray Bursts

D) Ultraviolet Glow

**7. What is the huge, powerful explosion that occurs at the end of a massive star's life cycle called?**

- A) Supernova**
- B) Nebula
- C) Protostar
- D) Solar Eclipse

**8. What giant cloud of gas and dust in space is known as a birthplace for new stars?**

- A) Asteroid Field
- B) Black Hole
- C) Nebula**
- D) Comet Tail