

Name _____

Black Holes: Cosmic Mysteries Unveiled

Multiple Choice Questions

1. How do black holes form?
 - a) From the collision of two galaxies
 - b) By the accumulation of gas and dust in space
 - c) Through the collapse of massive stars
 - d) From the expansion of the universe

2. What is the defining feature of a black hole?
 - a) An event horizon
 - b) A bright, visible surface
 - c) High temperatures
 - d) Strong magnetic fields

3. What is the role of a star's core in the formation of a black hole?
 - a) It triggers a supernova explosion.
 - b) It becomes a supermassive black hole.
 - c) It remains unchanged during a supernova.
 - d) It expands and engulfs the star.

4. How does a black hole's gravitational influence affect nearby objects?
 - a) It pushes them away.
 - b) It stretches and distorts them.
 - c) It slows them down.
 - d) It makes them invisible.

5. What distinguishes stellar-mass black holes from supermassive black holes?
 - a) Stellar-mass black holes are larger.
 - b) Stellar-mass black holes form from smaller stars.
 - c) Supermassive black holes are invisible.
 - d) Supermassive black holes are common in the universe.

