

Name \_\_\_\_\_

## Interstellar Navigator Certification Quiz

### 1. What is a black hole?

- A. A hole in space created by asteroids
- B. A region of space where gravity is so strong that not even light can escape
- C. A collapsed star that bounces light back into space
- D. A wormhole that leads to another galaxy

### 2. What is the event horizon of a black hole?

- A. The point where black holes explode
- B. The outer atmosphere of a star
- C. The boundary beyond which nothing can escape
- D. A visible ring of gas around the black hole

### 3. Which of the following can help scientists detect a black hole?

- A. The light shining from its surface
- B. The echoes from radio waves
- C. The way it bends nearby light and affects surrounding matter
- D. The sound it makes in space

### 4. What causes a stellar black hole to form?

- A. A planet crashing into a star
- B. A neutron star splitting in half
- C. The collapse of a massive star after a supernova
- D. The explosion of a galaxy

### 5. What is spaghettification?

- A. The process of fusion inside stars
- B. The stretching of objects due to intense gravity near a black hole
- C. A nickname for the shape of galaxies
- D. A gravitational balancing point

### 6. What happens to time near a black hole?

- A. It speeds up due to extreme gravity
- B. It remains unchanged
- C. It freezes completely
- D. It slows down relative to observers farther away

