

Name \_\_\_\_\_

## The Unseen Answer Key

1. Gas or dust spirals inward, forming an accretion disk around the black hole.
2. The material in the disk speeds up and heats to millions of degrees, emitting X-rays.
3. Gravitational lensing is the bending of light by a black hole's gravity, allowing scientists to detect or magnify distant objects.
4. Stephen Hawking was a physicist who proposed the theory of Hawking radiation.
5. Hawking radiation suggests that black holes can lose mass and disappear, which contradicts the belief that nothing escapes them.
6. The Event Horizon Telescope captured the first image of a black hole.
7. The Chandra X-ray Observatory and the Event Horizon Telescope.
8. Because black holes do not emit light, making them invisible to traditional telescopes.