"Gravity gone mad!"	Name	
Black Holes: The Ultimate Abyss	Date	Pd
1. If black holes cannot be seen, how do astronomers	search for them?	

- 2. According to Sir Isaac Newton, how is the mass of something related to its gravity?
- 3. Why will our sun not become a black hole?
- 4. How does mass affect the "space-time fabric" of the universe?
- 5. What is the event horizon of a black hole?
- 6. What is "spaghettification"? What happens to the passage of time for you relative to outside observers as you pass by the event horizon of a black hole?

- 7. Why will scientists never be able to explain what happens inside a black hole? († *Use answers to 5 and 6.*)
- 8. What use might "tamed" black holes have and what name are such useful ones called?
- 9. What is the very significant difference between your fate when pulled into a supermassive black hole (like at the center of our galaxy) instead of a stellar black hole?