

Name _____ Date _____

Black Holes:
The Ultimate Abyss

1. What are some of the steps involved in determining the mass of a black hole. What do astronomers have to measure or observe in order to estimate the mass?

2. What are the steps in the formation of a black hole once the core of a supermassive star fuses elements up to iron?

3. Why might we infer that there are many more black holes in our Milky Way than have been observed?

4. Describe what you would be experiencing as you approach a black hole, ending up with your spaghettification.

5. How does this reference frame differ from that of your friend who is safely tucked away in the “mother ship” watching you?
