

### ***The Mysterious Black Hole Online Activity***

Black holes are one of the strangest objects in our universe, and there is still much we don't know about them. However, today, you will find the answers to some of the questions regarding the mystery of the black hole.

1. Go to the website:  
[http://hubblesite.org/explore\\_astronomy/black\\_holes/home.html](http://hubblesite.org/explore_astronomy/black_holes/home.html)
2. Click on: Black Hole Encyclopedia
3. On a separate piece of lined paper, in point form, answer the following questions:
  - a. What is a black hole?
  - b. What is inside a black hole?
  - c. What instruments are used to find black holes?
  - d. How many black holes are there?
  - e. Feel free to read any other information about black holes you are interested in!
4. Click on 'What happens when I fall into a black hole?'
  - a. Read the information at the bottom for this experiment
  - b. Click 'Fall in' to see what happens
  - c. In a paragraph, using 4 – 5 sentences, summarize what happened during this experiment
5. Click on 'How can a star become a black hole?'
  - a. Read the information at the bottom for this experiment
  - b. Complete the experiment for each type of star (0.1x, Sun, 10x, 100x)

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