

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Date: \_\_\_\_\_

# Science Article

1. Just reading the title of this article, what do you think the article will be about?

2. What do you already know about this subject? (Brainstorm and include *anything* that comes to mind. This part doesn't need to be in complete sentences.)

3. You'll now be given the article itself. Look at any diagrams, photos, illustrations. Read the captions for these. Scan the first sentence of each paragraph. Now, briefly describe what you think the article is about.

4. Now read the article. As you read the article, make a list of words you are unfamiliar with. Write down what you *think* they might mean from the context (how they're used in the sentence). Then look up the word in the dictionary. List at ***least*** one word, but no more than three.

WORD	MEANING FROM CONTEXT	DICTIONARY MEANING

5. In just one or two sentences, summarize the main idea(s) of this article (What happened? What experiment was conducted? What was observed? What was learned? Why is it important).

# Stellar passage yields Charon's girth

1. What exactly is "Charon"?
2. What event took place on July 10, 2005, and what did it allow scientists to find out?
3. Where were the scientists who took these new measurements? Why didn't scientists in the United States also take these measurements?
4. The density of water is 1 g/ml or 1 g/cm<sup>3</sup>.
  - a) What is the density of Charon in g/cm<sup>3</sup>?
  - b) What is the density of Charon in kg/km<sup>3</sup> (hint: use units to give you the conversion)?
5. The formula for the volume of a sphere is  $\frac{4}{3} \pi r^3$ .
  - a) What is the volume of Charon in km<sup>3</sup>?
  - b) What is the mass of Charon (in kg)?