

Name \_\_\_\_\_ Per \_\_\_\_\_

Instructions: print out and write your answers directly on this paper. Handwritten only.

PART 3: APES CONTENT  
#6

**Article Summary Worksheet: Dead Zones**

*Article Title: Enriching the Sea to Death*

*Author/Source: Scott W. Nixon/Scientific American*

The purpose of this worksheet is to ascertain the author's major ideas, concepts, and key points. Fill out the sections below directly on this worksheet, handwritten only.

- A. While reading [the article](#), write down the words or phrases that require definitions or clarifications in bullet form. There should be at least 5.

- B. List the major ideas, concepts or key points in bullet point form.

*Examples:*

- *Digestion involves caloric intake, but eating something that cannot be digested causes intestinal cramping*
- *Fat can be modified at the molecular level by replacing certain parts with certain sugars*
- *Olestra tastes like fat and has less calories, but it can cause intestinal discomfort*
- *Many people have developed lower-calorie fat substitute, but they have not applied for Food and Drug Administration approval*

C. Summarize the author's main point or idea. This should be at least 1-2 paragraphs.

*Example: Summary of Author's Main Points:*

- *Fat has more calories and carbohydrates per given volume than nearly any other food. For this reason, humans have evolved to like the taste of fat and to store fat in their bodies. However, many Americans have excessively high cholesterol levels and insufficient blood flow to the heart as a result of excessive fat consumption. If one replaces certain parts of fat with certain sugars, he or she can cause the fat not to be digested. A product that makes use of this technology is Olestra, made by Proctor & Gamble. However, Olestra causes intestinal cramping and loose stools. Many other organizations have developed lower calorie fat-substitutes, but none have applied for Food and Drug Administration approval.*

D. Write a reaction paragraph to the article stating your own thoughts on the topic, using specific citations from the article to support your views.

*Example: My Own Thoughts on the Topic*

- *The fact that fat is such a nutritionally useful food means that it was advantageous for the majority of human evolution. This gives people a craving to consume large quantities of fat. However, this is not an excuse for excessive blood cholesterol levels and insufficient blood flow to the heart as a result of excessive fat consumption. The difficulty involved in mimicking fat (it has a specific taste and texture, and it melts in one's mouth) explains why it cannot be done well. I believe that it is possible to overcome the problems with current fat substitutes to create a practical lower-calorie fat substitute. Since an effective fat substitute would earn a tremendous amount of money for its inventor, I believe that the first organization to invent a practical fat substitute will immediately apply to the Food and Drug Administration for approval.*