

Dive to the Abyss - Internet Research Organizer

Use the Web Sites listed on the next page to answer the following questions:

1. List and explain each stage in the development of deep sea vents.

Create an illustration of each stage (you may use a separate piece of paper.)

2. What is the difference between white and black smokers? Where do each occur?

3. What role do temperature and pressure have in the creation of deep sea vents?

4. How are the dynamic forces of shifting plates related to deep sea vents?

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Resources:

Black Smoker Animation

<http://www.amnh.org/nationalcenter/expeditions/blacksmokers/animation.html>

The American Museum of Natural History Expeditions site provides a Flash animation provides a dynamic illustration of how black smokers are formed. Navigate by clicking on the green arrows and rolling the mouse over yellow words to see highlighted illustrations of those features. Requires the Flash Player Browser Plug-in.

Dive and Discover: Expeditions to the Sea Floor InfoMods

<http://www.divediscover.whoi.edu/cruise7/gallery/index.html>

Check out “The Discovery of Hydrothermal Vents” and “Hydrothermal Vents” for more information

Habitats: Hydrothermal Vents - Characteristics

<http://www.onr.navy.mil/focus/ocean/habitats/vents1.htm>

A concise summary written at a level appropriate for middle school students. Take the quiz to test your understanding.