

Name: _____

Date: _____

Mapping the Ocean Floor Worksheet (page 1)

Read the information below and then scan the table. On a separate sheet answer the questions that follow.

In this activity, you will learn how scientists use math to find out about the ocean floor. The data in the table below represents various measurements of the depth of the Atlantic Ocean between Cape May, New Jersey and Cape Roca, Portugal. You will use this data to construct a **profile**, or side view, of the floor of the Atlantic Ocean between these points. You will need a pencil, a ruler, and graph paper. Questions 1-3 will help you construct an appropriate graph. Once your graph is completed, use it to help answer the remaining questions.

Distance From Cape May (miles)	Ocean Depth (fathoms)	Distance from Cape May (miles)	Ocean Depth (fathoms)
0 (Cape May)	0	2,200	1,150
100	100	2,225	750
125	1,000	2,325	700
325	2,000	2,450	550
475	2,500	2,475	0
650	3,000	2,525	1,000
900	2,800	2,700	2,000
1,125		2,725	
1,300	3,125	2,800	2,800
1,425	2,900	3,150	2,700
1,475	2,000	3,300	2,300
1,600	1,600	3,400	
1,900	2,500	3,425	500
2,000	2,100	3,475	100
2,150	1,800	3,500 (Portugal)	0

1. The ocean depths in the table are measured in **fathoms**, where 1 fathom equals 6 feet. Find the minimum and maximum depths in the table. From what point is ocean depth measured? What does the maximum depth represent?
2. What is the maximum ocean depth between New Jersey and Portugal in feet? In miles? (Hint: one mile equals 5,280 feet).