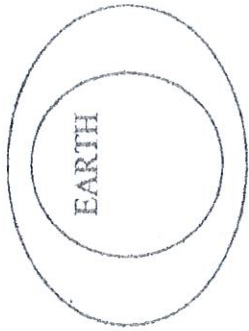


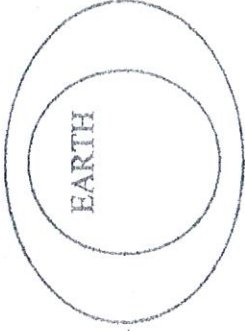
The Tides Around Us

Sketch the sun and moon as they would appear for a new moon spring tide. Label the sun, moon, and location of all low and high tides.



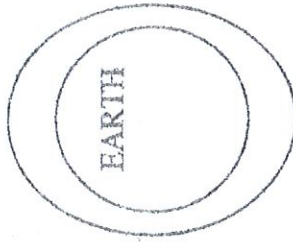
Sun

Sketch the sun and moon as they would appear for a full moon spring tide. Label the sun, moon, and location of all low and high tides.



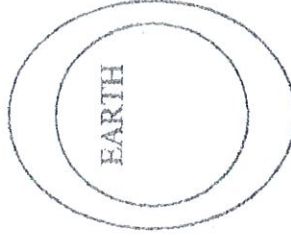
Sun

Sketch the sun and moon as they would appear for a first quarter moon neap tide. Label the sun, moon, and location of all low and high tides.



Sun

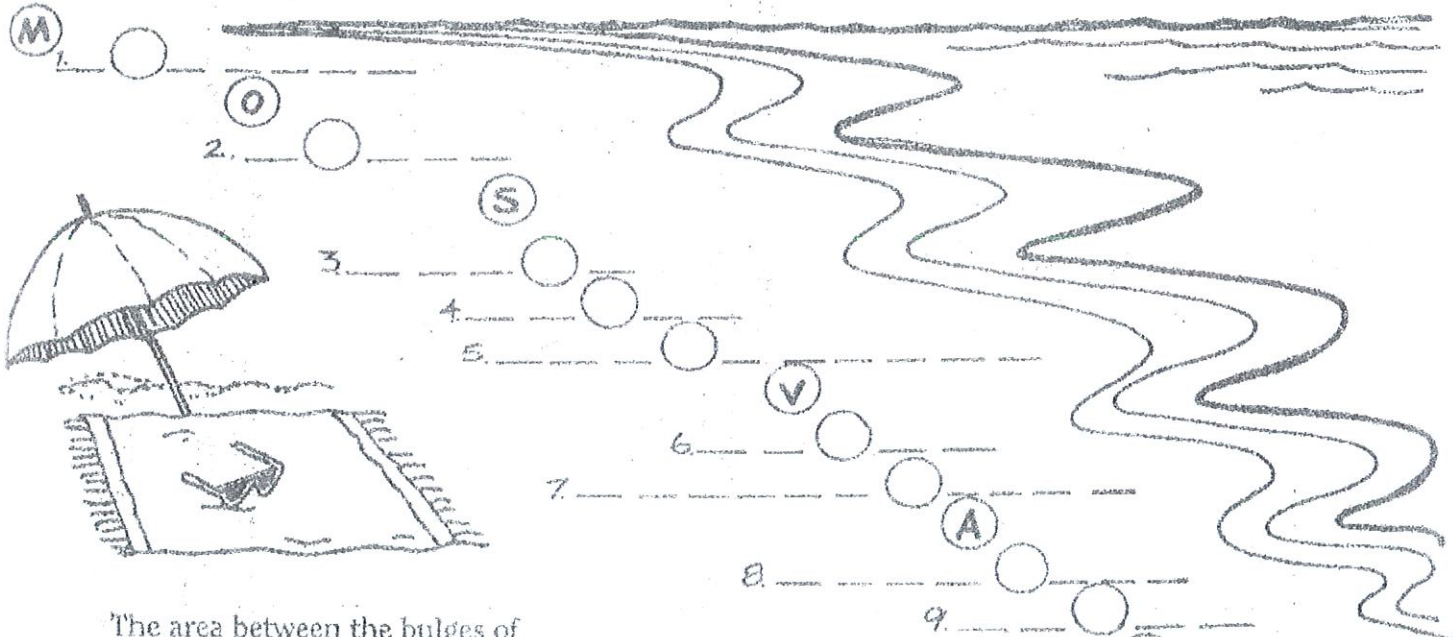
Sketch the sun and moon as they would appear for a 3rd (last) quarter moon neap tide. Label the sun, moon, and location of all low and high tides.



Sun

TIDE TALK

If the tide is out, is this a good place to set up your beach blanket? See if you know enough about tides to solve the puzzle. After you finish all the circles, the vertical word will answer the problem at the bottom of the page.



The area between the bulges of water is 1. Neap tides occur when the sun, moon, and Earth form a right 2. A rotational force of Earth-moon system causes a 3 in the ocean on the opposite side of Earth from the moon. Neap tides occur during the 4 and 9 quarter moon positions. The difference between the highest and lowest tides is the 5. Spring tides occur when the sun, moon, and Earth 6. These occur when high tides are highest and low tides are lowest: 7. Bulges of water in the ocean are 8. During neap tides, tidal range is at its 10. Two high and two low tides a day: 11. Minimum tides are 12. Spring tides occur when the moon is in a 13 or 16 position. One high and one low tide a day: 14. Spring tides occur 15 a month.

11. S E M I D I U R N A L

12. L
13. O
14. A D I U R N A L

Vertical: Bulge of the ocean is pulled toward the moon by this.

Name _____