

Learning the Rise and Fall of the Tides



Before we go to the seashore to explore, we need to know our tides.
Complete the activity below by learning about tides.

The Rise and Fall of tides – FIND THE MISSING WORDS

The tide has taken away the letters in some of the words below. Can you work out what the words are that are missing to complete the sentences:

Clue: These are the words that are missing: TWO, MOON, HIGH, ROCKY, TIDES, GRAVITY, HOURS, FOUR.

Each day the sea level rises and falls at certain times causing _____S. Tides are caused by _____V_____. So simply put: This is the gravitational pull on the Earth and Ocean caused by the ___O___ and Sun.

- Every **24 HOURS and 50 + minutes** there are _____ **High tides** and **TWO Low tides**:
 - **So that means that: High tides** occur every **12 H _____ and 25 minutes**.
 - **And from High tide to Low tide** there is a span of **SIX HOURS and 12.5 minutes** and then another **SIX HOURS and 12.5 minutes from Low tide to high tide**.

At **H _____** tide, the ocean water covers most of the shore. At low tide, the ocean 'retreats' and much of the shore lies bare of **W _____**. On a **R _____ Y** shore there may be lots of seaweeds, rockpools with animals and sandy beach to explore.

The best time to go to the seashore is approximately 2 hours before low tide and two hours after low tide. This means you can follow the retreating tide exploring the seashore as the tide goes out. You can then make your way back up the shore as the tide comes in. If you follow this tip, how many hours do you have to explore the shore? Three to _____ **R** hours.

Find a tide table on line and see if you can find out when the low tide is for the seashore in your local area. What is the best day and time to go to the seashore? _____

Draw or find a picture online of your favourite seashore showing it with the tide in, and another picture to show the same seashore when the tide is out.



The tide is in at _____

The tide is out at _____