

Name _____

Date _____

Class _____

Tides for Essex, CT – May 2017

Date	Height of A.M. High Tide (ft.)	Height of A.M. Low Tide (Ft.)	Moon Phase
May 4, 2017	4.1	1.4	First Quarter
May 7, 2017	4.0	1.2	Waxing Gibbous
May 11, 2017	4.9	1.0	Full Moon
May 15, 2017	4.4	1.3	Waning Gibbous
May 19, 2017	4.0	1.2	Last Quarter
May 23, 2017	4.3	1.1	Waning Crescent
May 27, 2017	5.0	0.3	New Moon
May 29, 2017	4.7	0.9	Waxing Crescent

Directions:

1. Looking at the data above, add the May dates to the X-axis of your line graph.
2. Add a title to your X-axis.
3. Draw the phases of the moon for each corresponding date
4. On the Y-axis, add the increments for feet, making sure to evenly space them
5. On the Y-axis, add your title
6. Add a Title for the graph
7. Using a red colored pencil, add the data points for the high tides
8. Connect the data points using a smooth/wavy line
9. Using a blue colored pencil, add the data points for the low tides
10. Connect the data points using a smooth/wavy line

Analysis: Answer the questions below using your data chart and graph. Be sure to list the date, high or low tide, feet, and moon phase as needed.

1. When did the highest tide occur? _____
2. When did the lowest tide occur? _____
3. When did the smallest tidal range occur? _____
4. When did the largest tidal range occur? _____
5. What is a Neap Tide? _____
6. What is a Spring Tide? _____
7. Were the Spring Tides or Neap Tides higher? _____
8. Were there any other patterns that you notice? _____
9. What is the relationship between the phases of the moon and the changes in the tide heights? _____

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