



6-8 Mathematics SCAVENGER HUNT

Using the Wave Tank, predict the volume of water in one wave.

Does the volume of the wave change as the wave progresses through the tank?



How does the volume differ as the initial height of the wave is varied?

Many exhibits in Ocean discuss laminar flow; from your observations, when is laminar flow most efficient? How is laminar flow mathematically related to the surface area and volume of the object through which the water molecules are flowing?

Visit the Weather Station and study the information about wind and pressure. Comparing the current pressure to yesterday's high and low, what sort of weather do you expect for today?

FOUCAULT PENDULUM

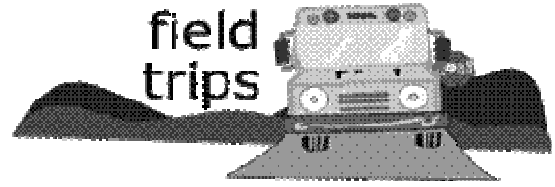
How many ball bearings should there be on $\frac{1}{8}$ of the circular foundation?

What percentage of the frame does this represent?

Convert this percentage to the corresponding degrees.



Find the information titled "Why do we die?" Compare the lifespan of humans to that of mice. Next compare the number of offspring humans produce to the number mice produce. Determine ratios to describe these two correlations.



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Program the movement and activities of a team of unmanned robots as they explore an alien terrain using the Robot Commander and Remote Arm. What kinds of estimates are you making as you decide the necessary actions? Do these calculations need to be very exact?

At the Return to Space exhibit, choose a few capsules and write their weights and thrusts in scientific notation. Make a graph of these values with weight on the x-axis and thrust on the y-axis. Is there a correlation?

