

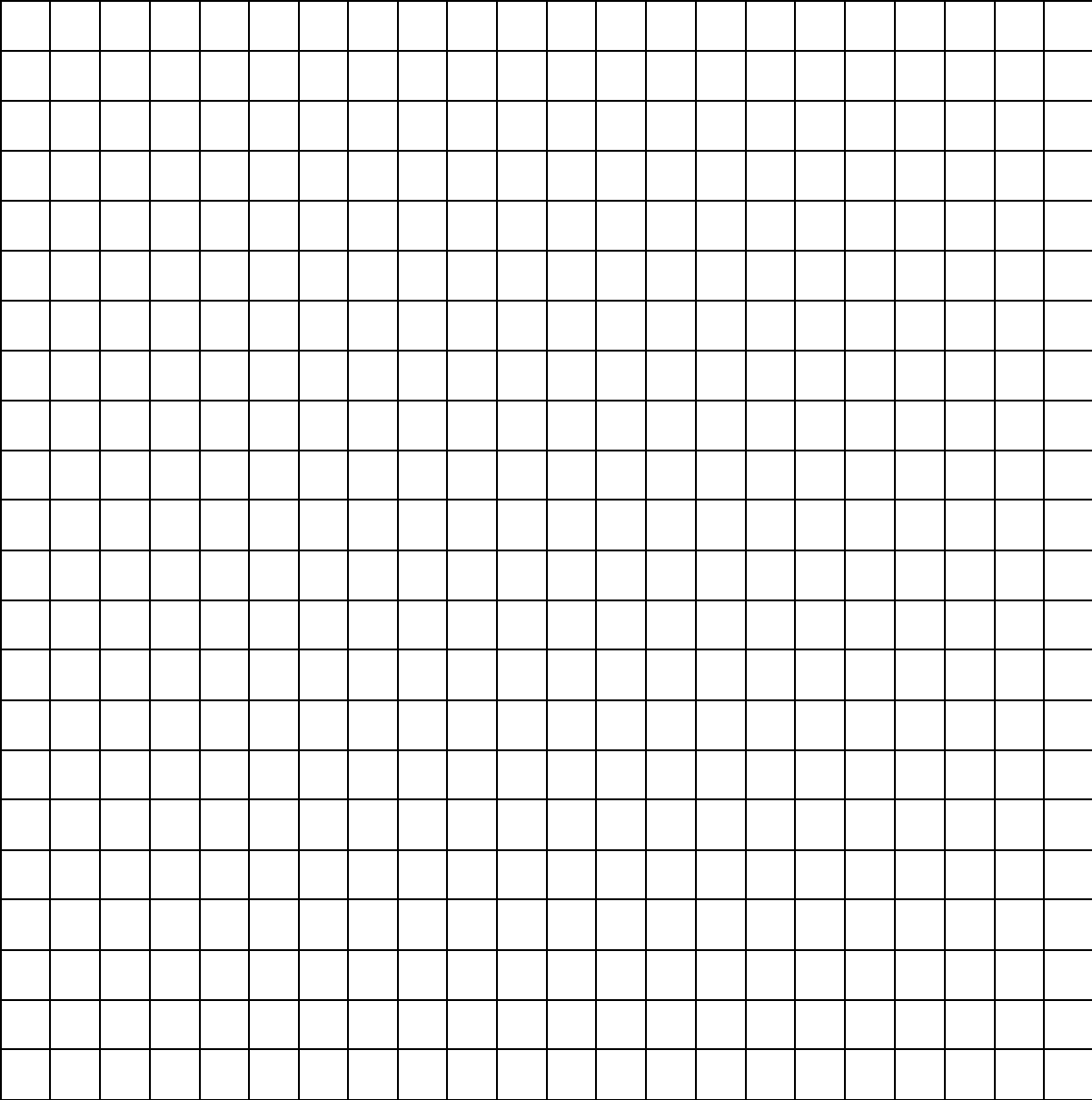
Math Lesson Plan Supporting Science Oceanography

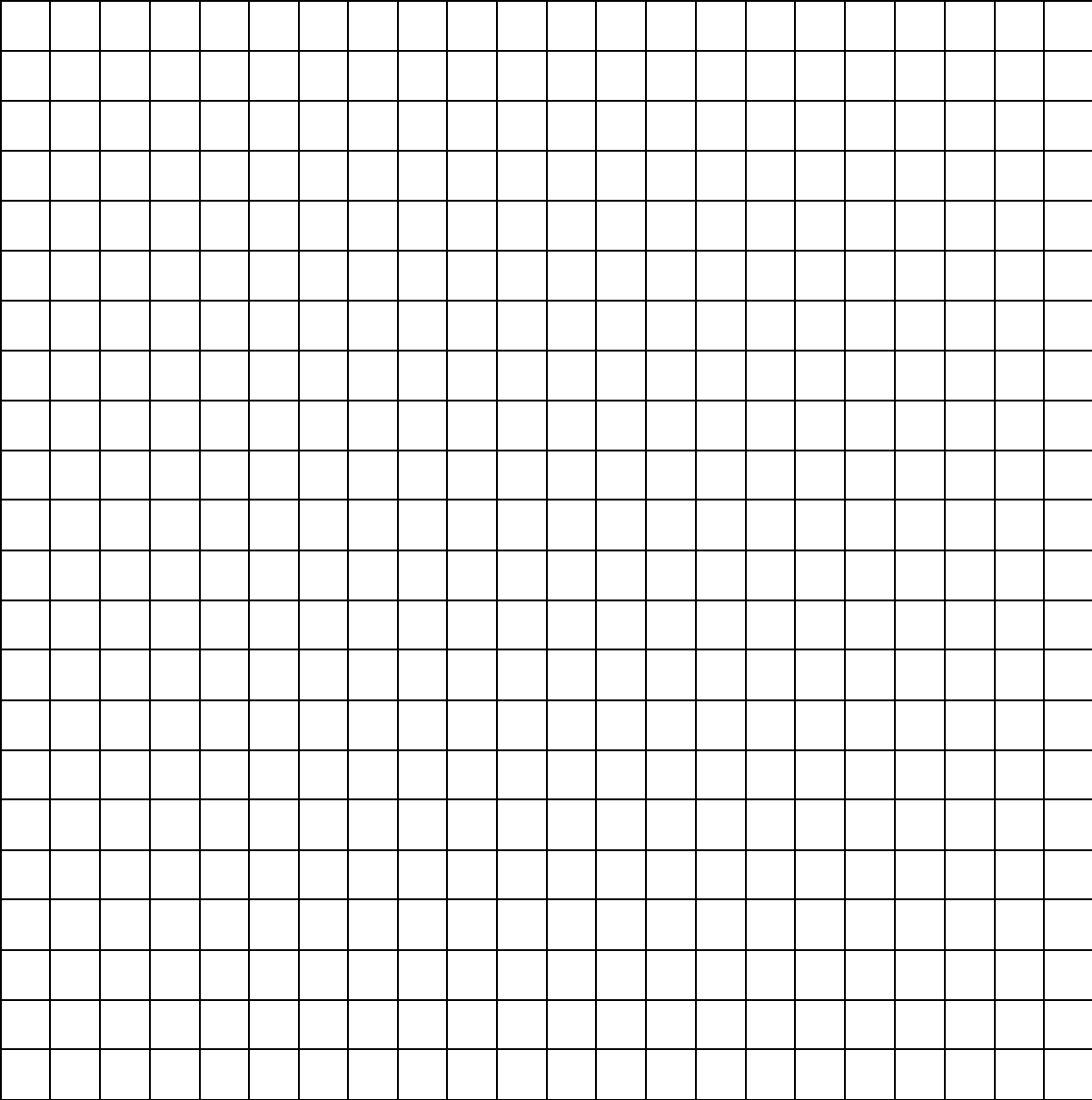
This lesson is a problem of the week to help support the idea of what forces would a Submarine or an ROV vehicle need to withstand if needed to descend to various depths. This lesson will require

- a. Numerical Answers**
- b. Line Graph Answer**
- c. Bar Graph Answer**
- d. Verbal answer**

Materials Needed

- a. Graph paper**
- b. Pencils**
- c. Ruler**
- d. An Active Mind**





Problem of the Week

An engineering firm needs a math team to help them with the following problem

a. They need to build a submarine and an ROV that can withstand the pressures of the ocean at various depths. They must fill this order and they have hired your team of Mathematicians to determine the strength of the hull of the two vehicles.

a. They require a

i. Numerical Answer

ii. Line graph Answer

iii. Bar Graph Answer

iv. Verbal Answer

PLEASE GIVE YOUR ANSWER IN POUNDS PER SQUARE INCH IN ALL FOUR FORMATS!

REMEMBER INDEPENDENT VARIABLE IS ON THE X AXIS AND THE DEPENDENT VARIABLE IS ON THE Y AXIS

LABEL X AND Y AXIS

USE A SCALE THAT MAKES SENSE AND PUT SCALE ON LINE AND BAR GRAPHS.

Problem

- 1. How much pressure must the hull withstand at 10 meter increments from 10 meters to 200 meters?**
- 2. Is this a linear or nonlinear function?**
- 3. What did you learn during this math investigation?**