Sci 8 **Volume**  **Lab** Name

Period

**Purpose:** To gain familiarity measuring volumes of regular and irregular objects.

**Part A:** Measure the volume of the block of wood using a ruler. Show your work.

**Part B**: Measure the volume of the SAME block of wood using the displacement method:

|  |  |  |
| --- | --- | --- |
| Water level in cylinder | Water level with block | Volume of block |
|  |  |  |

**Part C:** Measure the volume of ONE marble using the displacement method. Measure volume of 5 marbles.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Water level in cylinder | Water level with object(s) | Volume of object(s) |
| 1 marble |  |  |  |
| 5 marbles |  |  |  |

**Questions:**

1. What is the definition of volume?
2. What are the units for volume?
3. What are the different methods of measuring volume?
4. What three things do you need to know about measure volumes of liquids in a graduated cylinder?
5. Why don’t we use beakers for measuring volume?
6. How similar were your results from Parts A and B? Which method do you think is more accurate?
7. From your results in part C, how could you use your volume for the five marbles to calculate the volume of only one marble.
8. Why would you use this method (of measure many of the same object rather than just one)?
9. Could you use the same technique (from question 8) for measuring the mass of a small object?