Chemistry I EQ: How do you speak "chemese"?	Enduring Understanding Resource use impacts society.		
Reading Thermometers	Concepts Important to Know and Understand Accuracy and precision		
and Graduated Cylinders	Broad Brush Knowledge Accuracy and precision		
Core Objectives 2C: Express and manipulate chemical quantities using scientific conventions and man scientific notation, and significant figures.	thematical procedures such as dimensional analysis,		

PURPOSE Learn how to accurately and precisely record the temperature and volume from scientific equipment. Determine the calibration of a measuring device from the gradation scale and to appreciate the relationship between the precision of the calibrations and the number of significant digits in the measurement.

Review lessons on accuracy, precision, and scale calibration. Review lesson on significant figures.

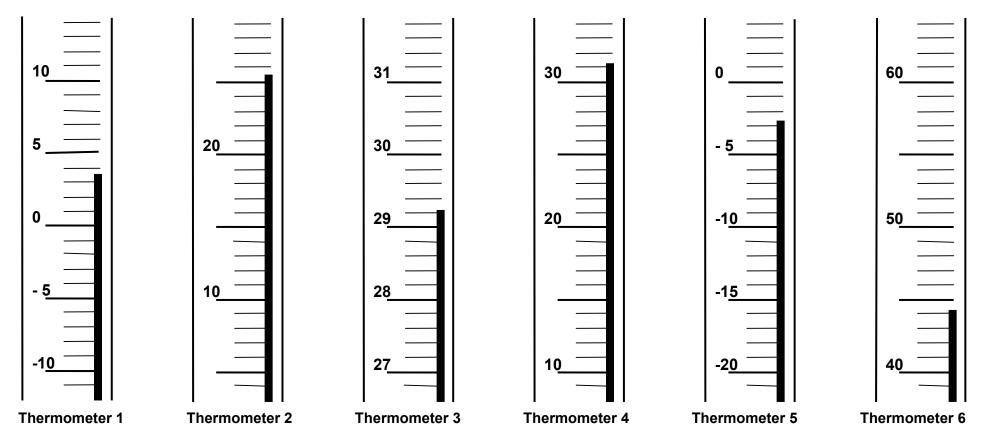
MATERIALS

Measuring Temperature worksheet Measuring Volume by Reading Graduated Cylinders worksheet

PROCEDURE

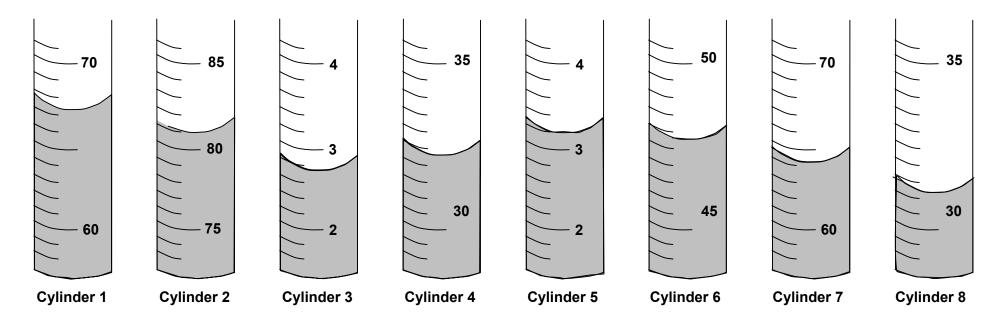
Determine the calibration of the measuring device from the gradation scale. Accurately and precisely record the temperature and volume from each picture of scientific equipment.

Measuring Temperature by Reading Thermometers



	Thermometer 1	Thermometer 2	Thermometer 3	Thermometer 4	Thermometer 5	Thermometer 6
Calibration (°C)						
¹ ∕₂ of the calibration (°C)						
Temperature (°C)						

Measuring Volume by Reading Graduated Cylinders



	Cylinder 1	Cylinder 2	Cylinder 3	Cylinder 4	Cylinder 5	Cylinder 6	Cylinder 7	Cylinder 8
Calibration								
¹ ∕₂ of the calibration								
Volume (mL)								