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Mixing Water Lab

Lab Objective: to make predictions, measure volume and temperature, and gain experience using lab equipment.

****EQUIPMENT:**

- 2 thermometers
- 2 graduated cylinders (to measure water)
- 1 plastic beaker (warm water)
- 1 glass 200ml beaker (cool water)
- 1 400 ml beaker (to mix water)



****PROCEDURE:**

1. **Copy** data table
2. **Set up** equipment
3. **Measure** cold water into one graduated cylinder (see data table)
4. **Measure** hot water into another graduated cylinder (see data table)
5. **Take the temperature** of cool water using one thermometer, **Record**
6. **Take the temperature** of warm water using the other thermometer, **Record**
7. **Predict** temp of the mixed water and **Record** on data table
8. **Mix** the warm and cold water, as indicated in data table, measure the temperature and **Record** results in data table

EACH PERSON HAS THEIR OWN DATA TABLE

THE WATER IS VERY WARM, BE CAREFUL WHILE POURING

When finished clean up area and return equipment.

Amount of water	Temp of Cool •C	Temp of Warm •C	Predict Temp of MIXED	Actual Temp of MIXED
40 mL cool 40 mL warm	XX	XX	XX	XX
30 mL cool 50 mL warm	XX	XX	XX	XX
20 mL cool 50 mL warm	XX	XX	XX	XX
10 mL cool 40 mL warm	XX	XX	XX	XX
Your choice Record on table	XX	XX	XX	XX
Your choice Record on table	XX	XX	XX	XX