Name : _____

Date : _____

TOOLS FUNCTION

Reading Text

In a chemistry laboratory, we use different types of tools. Each piece has a specific function. Knowing the correct tools helps you work safely and accurately.

SAFETY FIRST

Before starting any experiment, you must wear three essential items:

- Safety goggles protect your eyes from splashes and fumes
- A lab coat protects your body and clothes from chemicals
- Gloves protect your hands when handling dangerous substances

Never work in the lab without these three items!

CONTAINERS FOR LIQUIDS

We use several types of glassware to hold liquids:

A beaker is the most common container. It is cylindrical with a flat bottom and a small spout for pouring. However, beakers are NOT accurate for measuring.

A flask has a wide bottom and narrow neck. This shape prevents splashing when you mix solutions. There are different types: conical flasks and round-bottom flasks.

Test tubes are small glass tubes. We use them for small-scale experiments and chemical tests.

REMEMBER: Using the correct tools makes your work safer, more accurate, and more efficient!

MEASURING AND TRANSFERRING

When you need exact measurements, use a graduated cylinder. It is tall and narrow with lines showing volume in milliliters (mL).

A thermometer measures temperature. Digital thermometers are common in modern labs.

To transfer liquids into containers with small openings, use a funnel. This prevents spills.

For solid chemicals, use a spatula. It has a flat surface perfect for scooping powders.

REMEMBER: Using the correct tools makes your work safer, more accurate, and more efficient!

Activity D.1 – Tools Function Chart

Directions: Based on the reading, complete the chart. What is each tools used for?

TOOLS	MAIN FUNCTION
Beaker	Holding and mixing liquids
Test tube	
Flask	
Thermometer	
Funnel	
Spatula	
Graduated cylinder	
Safety goggles	
Lab coat	
Gloves	