

Lab Equipment Review



Perry High School

Lab Equipment Review

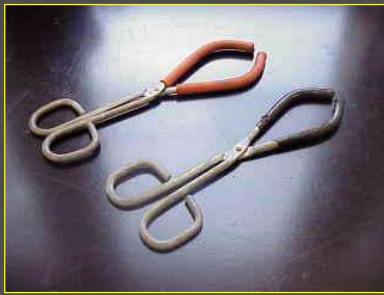
1. Beakers



Hold and/or heat solids or liquids that will not release gases when reacted, or are unlikely to splatter if stirred.

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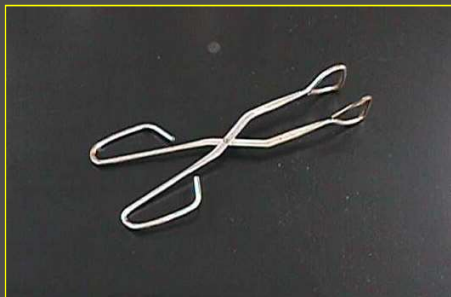
2. Beaker Tongs



used to hold and move beakers containing hot liquids.

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3. Flask Tongs



used only to handle flasks

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4. Erlenmeyer Flasks



hold and/or heat solids or liquids that may release gases during a reaction, or that are likely to splatter if stirred.

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5. Florence Flasks



Rarely used in first year chemistry, it is used for the mixing of chemicals. The narrow neck prevents splash exposure.

Also called round-bottom flasks

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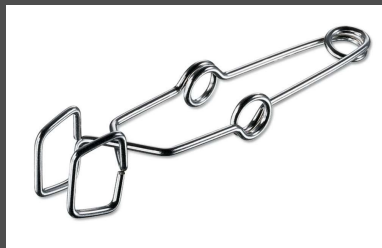
6. Graduated Cylinders



Used to measure volumes of liquids

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7. Test Tube Holder



Useful for holding a test tube which is too hot to handle with your hands.

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8. Test Tubes



**used to mix
chemicals, and also
used to heat
chemicals in.**

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9. Test Tube Brushes

**used to clean test
tubes and
graduated
cylinders.**



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10. Test Tube Racks



holding, drying, and organizing test tubes in a vertical position, and are located in the side wall cabinets.

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11. Cork or rubber stoppers



are used to close test tubes and flasks, thus avoiding spillage or contamination.

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12. Spot Plates

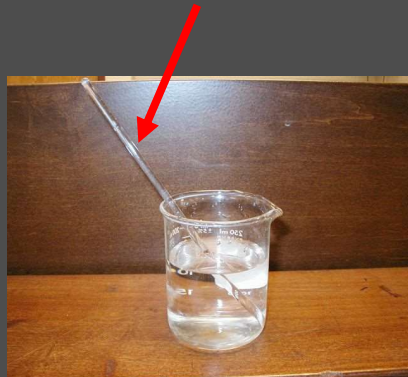
used when we want to perform many “small-scale” reactions at one time.



Numerous “well” depressions

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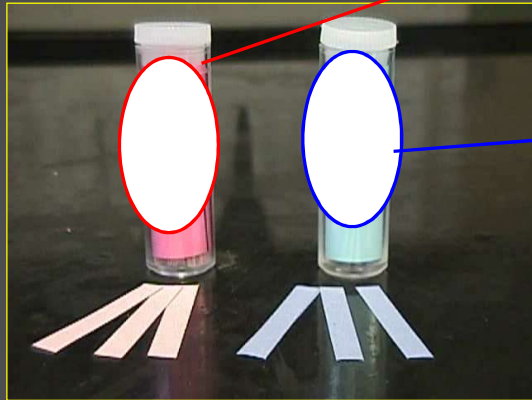
13. Stirring Rod



a) manually stir solutions;
b) assist in pouring liquids

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14. Litmus Paper



Red is used to identify *bases*:

- Red turns blue,
- Blue stays blue

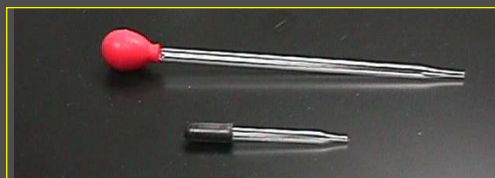
Blue is used to identify *acids*:

- Blue turns red,
- Red stays red

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15. Pipets

used to transfer a small volume of liquid, usually one drop at a time – you have both short and long pipets.



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16. Forceps

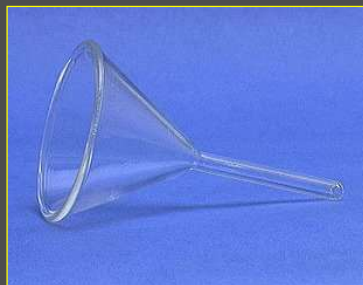


are used to hold or pick up small objects – Remember: it is best to never touch chemicals with your hands.

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17. Funnel

1) aid in the transfer of liquids from one vessel to another, and 2) hold filter paper while filtering.



(Some pieces of equipment are plastic, others are glass.)

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18. Wash Bottle



has a tip that delivers a stream of water to a specific area when squeezed.

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19. Weighing Boat



are used for holding and determining the mass of solid chemicals.

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20. Electronic Balance

✓ are very accurate,
highly dependable,
and rugged.

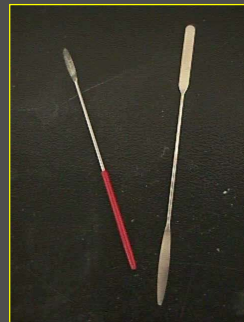
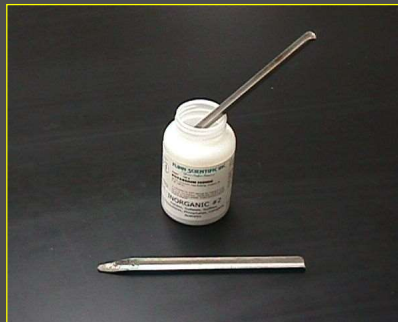


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21. Scoopula

22. Spatulas

used to dispense solid chemicals from their
containers.



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23. Bunsen Burner



used for the heating of nonflammable liquids and solids.

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24. Ring stands

safe and convenient way to support equipment holding reactions that require heating using a lab burner.



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25. The Ring Clamp

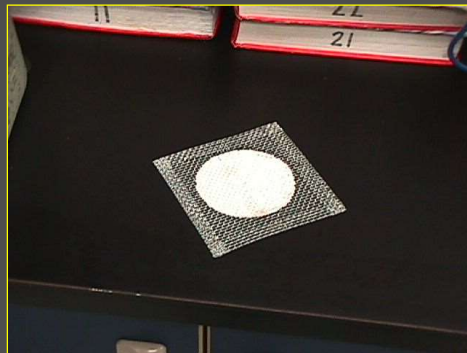
connect to a ring stand, and when used with a wire gauze provide a stable, elevated platform for a beaker to rest when heated.



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26. Wire Gauze

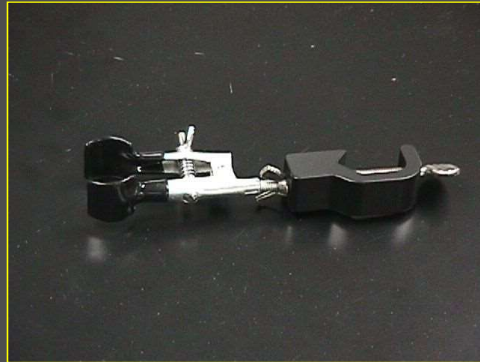
sits on the ring clamp to provide a platform to stand a beaker.



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27. Test tube Clamps

are used to secure test tubes, burets, and distillation condensers to the ringstand.



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28. Ruler



We always use the Metric System (also called the International System) to make our measurements.

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29. Tripe Beam Balance



Instrument used to measure mass very precisely.

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30. Goggles

