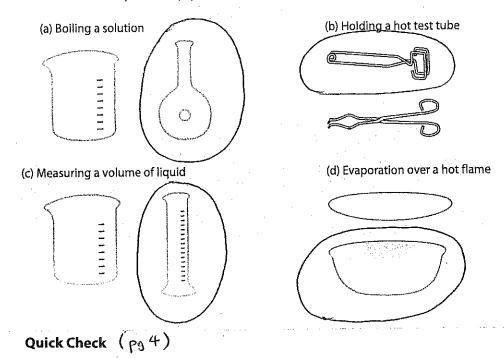
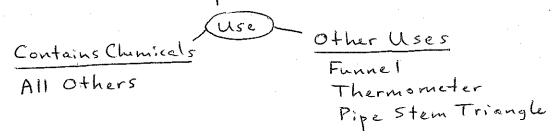
1.1 Staying Safe Around Matter

Warm Up (p. 2)

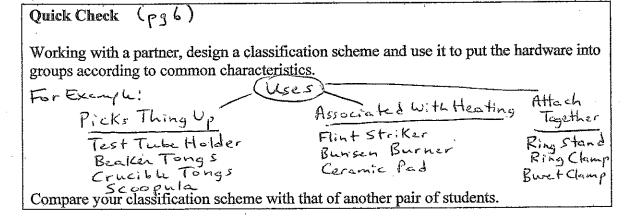
- · Examine each of the following pairs of equipment.
- · Consider how the structure of each piece relates to its function.
- Circle the better piece of equipment for each task.



Working with a partner, design a classification scheme and use it to put the glassware into groups according to common characteristics.

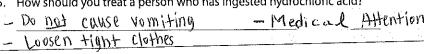


Compare your classification scheme with that of another pair of students.



Quick Check (PgF)	
An excerpt from an MSDS for hydrochloric acid solution for	
actual MSDS may contain more than 15 sections, each of v	which may be quite detailed. Read this abbreviated
excerpt carefully and answer these questions.	and the second s
1 What WHMIS labels would you expect to find on hydr	achloric acid? - corrosive

exc	rual MSDS may contain more than 15 sections, each of which may be quite detailed. Read this abbreviat Terpt carefully and answer these questions.
1.	What WHMIS labels would you expect to find on hydrochloric acid? _ dangerously reactive _ posson (Div 1)
2.	Give a synonym for hydrochloric acid. Muriatic Acid
3.	What are the chemicals that make up hydrochloric acid? 円のいせる
4.	What are the hazards of spilling hydrochloric acid on the skin? Corros ive, irritant, itching, reddening, scales, blisters.
_	How should you treat a person who has ingerted hydrachloric acid?





Quick Check (Pg 8)

What household labels would you expect to find on a container of muriatic acid?

Quick Check (pq 11)

- 1. How would you deal with each of the following accidents should it occur during a lab you are performing this year?
 - (a) While heating a small amount of alcohol in a beaker, it bursts into flame. smother with a cover (ceramic pad)
 - (b) Your partner hands you a piece of hot glass they've just bent after heating over a Bunsen burner.

ICE, cold water (15t) Notify 2nd) Nuthalize acid with baking soda, usipe up with 2. How could you have prevented each accident from happening to begin with?

- 1) Heat with hot plate 3) Hold carefully
- (test tube holder/take care) 2) Bring hand close

- 1.1 Activity: Safety in the Laboratory (p. 13) Students' answers will vary.
- 1.1 Review Questions (p. 14)
- 1. Where is the closest fire alarm to your chemistry laboratory? For example,

By 1st staircase to the right (BZZB)

2. Outline the route you should follow in case of a fire alarm while you are in chemistry class.

For example:

Right DOWN STAIRS

- OUT to OVA)

 3. How many fire extinguishers are in your laboratory? What are their classifications? For example, One
- ABC. 4. Knowing you have lab on a particular school day, describe how you should dress. closed toe shoes, natural fibres, no danglings

loose clothes or jewelry 5. Give the name and use of each of the following pieces of equipment:

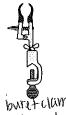


graduated cylinder (measure ((quids

erlenmeyer flask (holds liquid)



crucible (lacat)



burefclamp (clamp buret)



testible holder (holds test tlakes)

6. List three things you should do before beginning any chemistry experiment.

Read lab/ know safety procedures/ Safety glasses

7. Give three uses for the fume hood. VINT toxic fames, odours, smoke, Store organics, shield

- 8. What is the most common injury in the chemistry lab? How might you avoid this injury? How would you treat this injury?
- burns
- bring hand near
- 1CC
- 9. How would you assist your lab partner in each of the following cases?
 - (a) Partner has spilled a chemical into his or her eyes.

10-15 min in eye wash

(b) Partner's clothing has caught fire.

Stop drop roll /fire blanket

(c) Partner has spilled concentrated acid onto the floor.

notify/neutralize with barring soda

- (d) Partner took more chemical than required for the share / proper disposal
- (e) Partner has broken a test tube on the floor.

notify /sweep up - place in glass disposal

10. What is the meaning of each of the following labels?



Dargerowly Reactive



D0150910W product





Corrosive product



corros ive

- 11. Outline a three-step procedure for cleaning glassware at the end of the period.

 WASH WITH SOMP (+ SCRUBBIL/BYUSH)

 RINGL

 AIY DY
- 12. Why should long hair always be secured back during lab?

Avoid contact with flame/chemicals

13. Why do you suppose food and drink are not allowed during lab?

contamination/ may drink wrong thing

14. What do you think is safer: the laboratory or your kitchen? Explain why.

more safety equipment us

more hazards

15. Give the name and use of each of the following pieces of equipment:

beaker tongs (pluk vip beaker)



crucible tongs (pluk up crucible)

ring stand and ring

(holds ceramic pad or Safety

ring)



ceramic pad
(sits on ring for heating)

16. Where should binders, book bags, and backpacks be stored during the lab?

under bench - out of the way

17. What is an MSDS? Where might an MSDS be found in your school?

Matrial Safety Data Sheet

B 'ነገር ይነ ያንወነት የመነገ ፡

18. Where would you dispose of each of the following?

(a) a few milliliters of excess dilute acid

SINK (run water before + after)

(b) a sample of heavy metal precipitate

Disposal jar

(c) an excess piece of glass tubing

glass disposal

(d) used litmus paper

garbage can

(e) a few milliliters of excess acetone (nail polish remover)

organic disposal in fume hood

19. What is the meaning of each of the following labels?





poison revel II biohazard





poison division I

flammable contents (product)



oxidizing matotal

20. Give four things to keep in mind while heating a testtube half-filled with liquid.

Clamp near top of test tube

4502

leep moving

point away