

Overview

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Familiarize Yourself with Lab

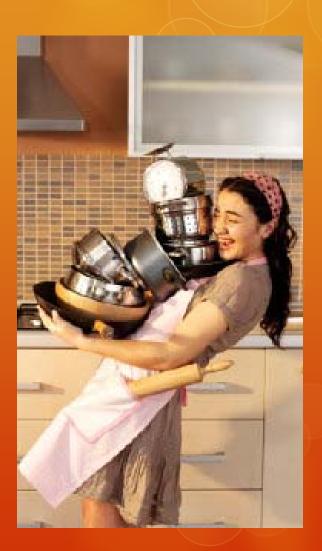
It is important to not only know where things are in the lab to effectively prepare your food, but also the procedures involved with kitchen resources, tools and equipment. Below are some items to ensure you know their locations, safe use, and procedures.

- Gas and electric stove/oven, fridge, freezer, dishwasher, clothes washer, microwave, sink, and GFI electrical outlets
- Utensils, knives, cutlery, pots, pans, baking trays, mixers, bowels, measuring cups and spoons, towels, and cutting boards
- O Apron storage, sanitizing solution, hand soap, dish detergent, first aid, fire extinguisher, fire alarm, fire blanket, baking soda, and salt



General Safety Rules

- O No Horseplay or playing with tools and equipment
- Keep a clean organized work area
- O Pay close attention to what you are doing
- Do not operate equipment or handle tools unless you have had **instruction**, understand completely, and feel comfortable with the process
- O Learn all the **safety rules and procedures** for the utensils and equipment that you use
- O Clean any **spills** immediately, and inform people in the area to be aware
- O Report any **injuries** to the teacher, immediately
- O Report any safety **hazards** to the teacher, immediately
- Use caution when handling, carrying, and washing hot items
- O Only use **knives** for their intended purpose



Cleaning



- Cleaning is to remove all dirt and bits of food that you can see, from dishes, countertops, cutting boards and other food contact surfaces
- Cleaning is **NOT** the same as sanitizing
- O **Hand washing** is the most important activity you can do to keep from getting sick and/or passing on germs, pathogens, and/or viruses
- O **Bacteria** are tiny living things that grow in food which you can not smell or taste
- O Some bacteria are helpful, while others can cause sickness and are known as **pathogens** or harmful microbes
- O If hands are not washed often and thoroughly, microbes can spread directly from one person to another or to food or onto surfaces that are touched such as utensils and other food contact surfaces
- O A **virus** is the smallest microbe and is usually spread through unwashed hands.
- O If you are **sick** (cold, vomiting or have diarrhea) do not attend food class in the lab/kitchen

Sanitizing

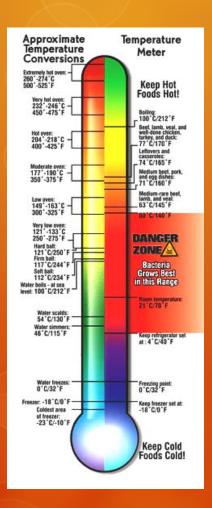
Sanitizing is a process of killing germs.

- O Kitchen and dining surfaces, sanitize regularly using sanitizing solution for food contact surfaces such as: 5 mL (1 tsp) regular unscented bleach in 1 L (4 cups) water for:
 - O Dishes and cutlery
 - O Counters, sinks and taps
 - O Cutting boards and other food preparation equipment
 - O Chairs and tables, including the edges
 - O Dishcloths, dish towels and sponges
- O For non-food contact surfaces, sanitize regularly with a stronger bleach solution: 5 mL (1 tsp) regular unscented bleach in 500 mL (2 cups) water.
 - O Toys, bathroom toilets, sinks, taps, counters,
 - O Door handles, light switches, and stair railings

There are also some cleansers that have sanitizing agents included in them such as bleach.

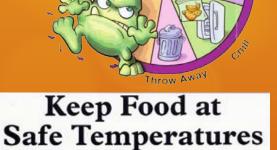


Preventing Food-borne Illness



To fight bacteria that may cause food-borne illness:

- O Cook foods thoroughly to destroy harmful bacteria that may be present in food
- O Separate foods to avoid crosscontamination
- O Chill food to the appropriate temperature
- O Put leftovers in the fridge right away, bacteria multiplies fastest between 4°C and 60°C
- O Clean hands, surfaces and produce



Keep all food either hot or cold. This will stop dangerous bacteria from growing. Do not leave food at room temperature for over two hours.

- Cook and reheat at temperatures above 71.1°C (160°F).
- Refrigerate at temperatures below 3.3°C (38°F).
- Freeze at temperatures below 0°C (32°F).



When To Wash Hands

- Before eating or preparing your food
- After using the washroom
- O After touching a pet
- Whenever hands come in contact with body fluids including vomit, saliva, and runny noses
- O After blowing your nose or sneezing into your hand
- O After touching a cut
- O After touching your any part of your face or hair
- O After playing or working outside
- After taking out the garbage
- O After touching raw meat

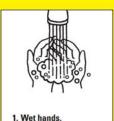
Wash Your Hands and Utensils Keeping your hands as well as your equipment and work area clean will prevent bacteria from growing and spreading. Wash with hot soapy water.



How To Wash Your Hands

- O Rinse your hands with warm water to get them wet
- O Apply **soap**, enough to create a lather
- O Rub/scrub your hands together to make a soapy lather for about 20 seconds
- Wash back, palm of hands, wrists, above wrists, between your fingers and thumb, and nail area
- O Rinse with clean warm water
- O **Dry** with clean paper or cloth towel

Hand Washing













Stop the Spread of Germs

Always Wash Your Hands

After you:

- · Sneeze, cough or blow your nose
- . Use the washroom or change diapers
- · Handle garbage
- · Play outdoors

Before and after you:

- · Prepare or eat food
- . Touch a cut or open sore

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Personal Cleanliness and Hygiene



- O Thoroughly wash and dry your hands before handling food, and again frequently during food preparation
- O Never chew gum, spit, or eat in a foodhandling or food-storage area
- O Never cough or sneeze over food, where food is prepared, or where it is stored
- O If you are sick, stay home and get better, before participating with food preparation
- O If you have long hair, tie it back and/or cover it with a hair net
- O Roll up long sleeves
- O Wear clean clothes and protective clothing, such as an clean apron
- O If you have cuts or wounds, make sure they are completely covered by a waterproof a bandage

Personal Cleanliness and Hygiene

- O Wear disposable gloves over the top of the wound strip if you have wounds on your hands, and change regularly as needed
- Keep your nails short so they are easy to clean, and don't wear nail polish as it can chip into the food
- Avoid wearing jewellery, or only wear plain banded rings and sleeper earrings
- O No hats (unless specially designed for food use)
- O Cover cut, sores on your hands with a Band-Aid and gloves before handling food
- O Use separate spoons for tasting and stirring pour a little food from the stirring spoon onto the tasting spoon
- O Keep clean wipes close, if needed
- O Do not lick you fingers (even if it is delicious!)



Spot the Hazards



- Blender/blender cord
- 2. Stove flame
- 3. Aerosol can
- 4. Toaster cord
- 5. Ceiling light
- 6. Hammer on edge
- 7. Ladder
- 8. Toy cart
- 9. Newspaper
- 10. Toy Duck
- 11. Cleaning supplies
- 12. Cleaver on edge
- 13. Matches
- 14. Food container lid
- 15. Fish & chicken
- 16. Milk
- 17. Mop handle
- 18. Spill, bucket, water on floor
- 19. Cupboard left open
- 20. Cookie jar
- 21. Frying pan handle
- 22. Poison and bug powder

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Kitchen Lab Rules

- Wash your hands thoroughly before working with food
- Wipe up all spills immediately
- Walk, do not run
- Keep chairs tucked under tables while working
- O If glass or china is broken, wrap all fragments in a paper and dispose
- O Use a pot holder at the stove, never an apron or a dishcloth
- O Keep handles turned away from the edge of the stove
- Lift covers away from you to avoid steam burns
- O Check to be sure all burners are turned off at the end of a lesson/food prep.





Kitchen Lab Rules

- O Long hair must be tied back when cooking
- O Do not wear coats, heavy sweaters, or loose clothing when cooking
- O In the lab area, all students must wear aprons during food preparation
- Stay in, your own kitchen area, do not visit others
- O **Wipe up spills immediately.** Spilled liquid can cause major accidents in the kitchen
- Walk in the kitchen, do not run
- Always pay attention to where you are going and what you are doing
- O Keep cupboard doors and drawers closed
- O Keep all towels, pot holders, and paper away from the burners

Fire Drill

- O Turn off all stoves and any electrical appliances and wait for instructions
- O Each food lab area has a fire extinguisher
- O) Will be required to calmly and quickly exit the building to the closest designated exit
- O Wait off school property on opposite sidewalk
- O Stay off other peoples properties
- A bell/announcement will let us know when it is safe to go back in



Grease/Oven Fires

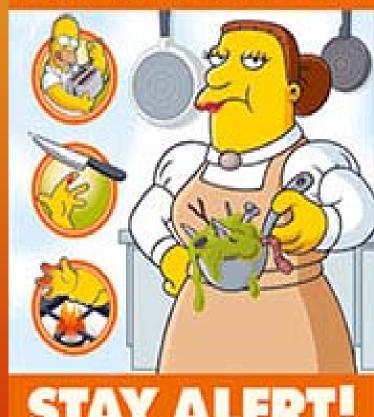


- O Fire on stove top:
 - O Smother fire with a lid– fire can not burn with out air
 - Never try to carry a burning pan out of the room
 - O Do not use water on grease fires, it will make it blow up
- O Fire in the oven:
 - O Close the door to shut out the air
 - O Turn off the element
- O Baking soda or salt on the fire will also put it out, if necessary
- O Know where the fire blanket is stored if you have one
- O Know where the closest fire alarm to the room is

Precautions

- O Kitchens have many electric appliances such as coffee pots, toasters, electric mixers, etc. As water is a conductor of electricity never touch an electrical appliance with wet hands
- Never pull on the electric cords, take the plug base from the wall first
- Never put a knife or fork (metal object) into a toaster that is plugged
- O Careful not to leave knives on table edges and carry with point down
- Passing to another peer by handle facing peer, blade down
- Ensure pot handles are facing in to stove
- Keep work area organized and clean

SAFETY HAZARDS IN THE KITCHEN ARE EVERYWHERE



STAY ALERT!

Be Safety Conscious

It is very important to know what to do in an emergency or difficult/dangerous situation.

- What would you do in the following situations?
 - O You are deep-fat frying and the pan catches on fire?
 - O You are broiling lamb chops and they catch on fire?
 - O Your lab partner burns her hand over a boiling kettle?
 - O You are washing dishes and you break a glass in the sink?
 - O You spill grease from the fry pan on the floor?
 - O Your lab partner faints in the kitchen in front of the oven?
 - O A large knife starts to drop off a table, what do you immediately do?
- O Know the location of the following items:
 - O Fire extinguisher
 - O Fire blanket
 - O Fire exit

- O Closest fire alarm
- O Power switch
- O Baking soda/salt

MEDICAL EMERGENCY? IT SAVES LIVES.

Hazardous Product Symbols





| WHMIS symbols: | | |
|----------------|--|---|
| | Class A - Compressed Gas | Cylinder may explode or burst when heated, dropped or damaged. |
| | Class B - Flammable and Combustible Material | May catch fire when exposed to heat, spark or flame. May burst into flames. |
| | Class C - Oxidizing Material | May cause fire or explosion when in contact with wood, fuels or other combustible material. |
| | Class D, Division 1 Poisonous and Infectious Material: Immediate and serious toxic effects | Poisonous substance. A single exposure may be fatal or cause serious or permanent damage to health. |
| (<u>T</u>) | Class D, Division 2 Poisonous and Infectious Material: Other toxic effects | Poisonous substance. May cause irritation. Repeated exposure may cause cancer, birth defects, or other permanent damage. |
| | Class D, Division 3 Poisonous and Infectious Material: Biohazardous infectious materials | May cause disease or serious illness. Drastic exposures may result in death. |
| | Class E - Corrosive Material | Can cause burns to eyes, skin or respiratory system. |
| R | Class F - Dangerously Reactive Material | May react violently causing explosion, fire or release of toxic gases, when exposed to light, heat, vibration or extreme temperatures |

Procedures & Preventions -Falls

It is critical to **practice safe procedures** on a daily basis creating excellent habits which will probably prevent most falls, cuts, burns, poisoning, and electric shock.

- O Prevent falls by:
 - O No objects or spills left on the floor
 - O Use a step ladder rather than a chair
 - Area rugs must have non-skid backing
- O First Aid for falls:
 - O Don't move a person with broken bones unless necessary
 - O Call medical help if head aches, dizziness, vomiting, or speech impairment results from head injury
 - O Mild bruises/sprains need ice bag or cold water/cloths and elevation



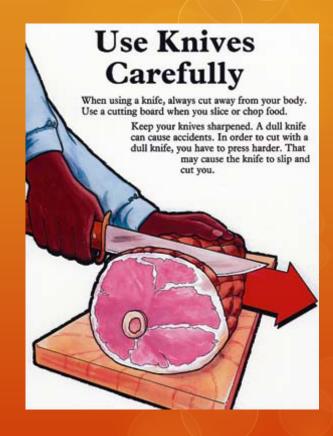
Procedures & Preventions - Cuts

A number of work habits will prevent cuts;

- Keep knives sharp so you don't have to push as hard
- O Never catch a falling knife in mid air
- O Use the correct knife for the job
- O Use a cutting board, never cut on the counter
- O Do not slice food in your hand
- O Always cut away from your body
- O Careful how you point and carry knives
- O Wash knives separately
- O Keep knives in a rack or separate from other equipment
- O Don't use knives for anything but cutting
- O Keep fingers away from mixer blades
- O Cut can lids completely off and throw out
- O Sweep up rather than pick up broken glass and wipe up tiny pieces with several damp paper towels
- O When a glass breaks in the kitchen sink, let the water out using several paper towels; then wipe out pieces with paper towels

First Aid for cuts:

- O Stop sever bleeding with the pressure of a thick cloth; get medical help
- O Minor cuts wash with soap and water, blot dry, disinfect, an bandage



Procedures & Preventions - Burns



- A number of work habits will prevent fire and burns
 - O No flammable materials near hot appliances
 - O Avoid loose clothing with long sleeves
 - O Use dry pot holders, not towels
 - O Store flammable materials away from heat
 - O Wipe off range after each use, to avoid grease build-up
 - O If you smell gas don't turn on any appliancesventilate room and call gas company
 - O Turn pan handles in toward the back of the range
 - O Remove pan lids so steam escapes away from you
 - O Keep appliance cords out of the way
 - O Use both hands to remove a pan from the oven
 - O Turn off appliances /oven when cooking is finished
 - O Lower food with spoon into fat slowly not fingers

Procedures & Preventions - Burns

O In case of **fire**;

- Use baking soda instead of water
- Use a fire extinguisher
- O If clothing catches on fire, drop to the ground and roll
- O Crawl on the ground to get out of smoke filled room
- O Always smother fat fires. Do not put water on them, as burring fat floats on water and spreads even faster

O First aid for **burns**;

- O For minor burns 3" or less (1st/2nd degree) hold the burn under cool water or cold compress for 10-15 minutes
- O Cover the burn with sterile bandage loosely
- O Avoid ointments, grease, egg whites, butter and/or oil, and don't break blisters
- O For 3rd degree bad burns, call 911, don't run water, don't remove clothing, check for breathing, if not CPR, put cool moist sterile bandage/cloth over burn area



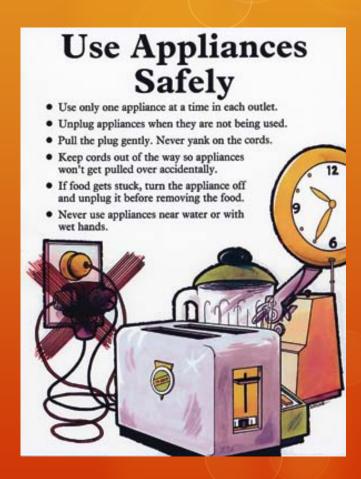
Procedures & Preventions - Poisons



- A number of work habits will prevent poisoning;
 - O Use original containers with their labels
 - O Securely close and lock cabinets
 - O Store chemicals on a high shelf away from food containers
 - Follow antidote directions in well ventilated area if poisoning occurs
 - O Never mix compounds such as bleach/ammonia
 - O Use charcoal/hibachis outside only as it gives off carbon monoxide
- O First aid for poisons;
 - O Call medical help and if possible use antidote on label
 - O Check for WHIMS first aid information
 - O If fumes, get person to well ventilated area
 - O Flush eyes with water if irritated

Procedures & Preventions - Shock

- O A number of work habits will **prevent electric shock**;
 - O Keep water away from electrical appliances
 - O Never touch an electrical appliance with wet hands
 - O No electric cords near hot objects
 - O Avoid octopus one outlet with many cords
 - O Use heavy duty extension cord
 - O Disconnect appliances before cleaning
 - O Don't immerse electric appliances in liquid
 - O Connect detachable cord to appliance first then plug it in
 - O Don't use damaged appliances
 - O Use only a wet/dry vacuum on wet floor
 - O Keep metal away from the working parts of an applianceexample fork in toaster to pull out bread
- First aid for electric shock;
 - O Don't touch person connected to electricity
 - O Turn off power, pull plug or pull person away wit cloth loop
 - O Administer CPR if qualified and call for medical help



Summary



- Learned about the Kitchen lab, where things are, general safety and specific safety in the lab.
- O The difference between cleaning and sanitizing and the importance to washing hands.
- O Food temperatures are important in controlling bacteria amounts
- O Emergency procedures when there is a fire drill, grease fire.
- O General precautions and to always be safety conscious with what you are doing in the kitchen/lab
- O Hazardous product symbols that you need to know for your protection
- O Procedures and prevention for falls, cuts, burns, poisons and electric shock.

Related References To Checkout

- O http://mfranzen.ca/pages/cor/tfj1o1-fs_u4.html
- O http://healthycanadians.gc.ca/eating-nutrition/safety-salubrite/index-eng.php#a2
- O http://www.crfa.ca/
- O http://www.restaurantcentral.ca/handhygiene.aspx
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- O http://www.youtube.com/watch?v=zaHuHubvvfU
- O http://www.youtube.com/watch?v=4M_rDWdtzus&list=PL9DE5FEFEC0CF1859

