Welcome to the Canning and Preserving Resource Training!

Please take this time to complete our attendance form and fax it to our Community Nutrition Advisor at 780-495-7338 or email to hc.abnutrition.sc@canada.ca.

We will begin shortly!

Thank you!

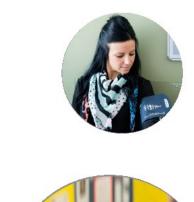


Canning and Preserving





























Outline

- Today's training will be about 1 hour long
- It will include:
 - How to blanch foods
 - How to freeze-store foods
 - How to vacuum-seal foods
 - How to dry foods
 - How to can foods
 - What foods can be canned
 - How to make pickled vegetables
 - Freezer jam demonstration
 - o Discussion/Questions
 - Evaluation

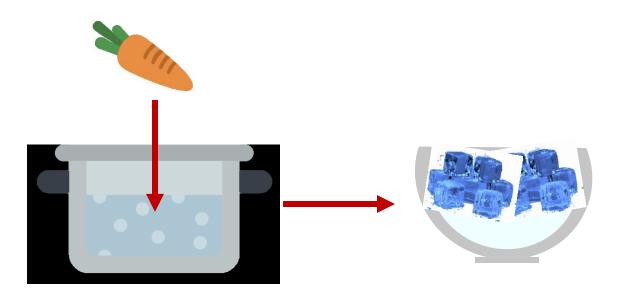


Blanching



What is Blanching?

- **Blanching**: a cooking process of immersing the vegetables in hot, boiling water, then in iced water
- Inactivates natural food enzymes that cause loss of flavour, color, and texture
- Often used before freeze-storing vegetables to keep their freshness



Blanching: Tools and Ingredients Required

Tools	Ingredients
Deep cooking potStrainerLarge bowlKnifeCutting board	Vegetable of choiceWaterIceSalt
Additional tools and ingredie	ent required if freeze-storing:
Baking sheetFreezer bag(s)Bowl or potWater	

How to Blanch Foods

How to Blanch Vegetables: eHow

https://www.youtube.com/watch?v=svHjQwJcJaE

Blanching: Key Points

- Add 1 teaspoon of salt for every 5 litres of water used
- Cut vegetables into equal pieces so they cook evenly
- Bring to a rolling boil: bubbles do not disappear even after stirring
- Add only a few pieces of vegetables to the boiling water at a time
- Boil vegetables for 2 3 minutes
 - Vegetables should be crisp, not crunchy (undercooked) or mushy (overcooked)
- Use a strainer or slotted spoon to transfer vegetables from hot water to cold water



Freezing



What is Freezing?

- Freezing: storing foods at temperatures of -18°C to -23°C
- Slows the spoilage of foods by <u>stopping</u> microbial growth and ripening enzymes
 - Note: freezing does not kill the microorganisms
 - Microorganisms will begin to grow again once the food is thawed





How to Freeze Blanched Foods

Blanch and Freeze Fresh Vegetables: Co+op Kitchen

https://www.youtube.com/watch?v=M0vT8UFeQvU

Freezing: Key Points

- Freeze food in a single layer, keeping them apart from each other
 - Optional: place parchment or wax paper on baking sheet to prevent food from freezing onto the baking sheet
- Place frozen food into a <u>freezer</u> bag
- Freeze foods quickly to avoid formation of large ice crystals
- · Avoid thawing, then re-freezing



Vacuum Sealing





What is Vacuum Sealing?

- Vacuum sealing: a packaging method where air is removed from the package before it is sealed
- Extends shelf-life by preventing microbial growth
- Prevents freezer burn

How to Vacuum Seal using Water Displacement

Vacuum Seal Freezer Bags: CNET

https://www.youtube.com/watch?v=fO_lcL7Ibgo

Water Displacement Vacuum Sealing: Key Points

- Place the whole bag, except the unzipped end, underwater
- Shake the bag underwater to remove more air
- Zip the freezer bag while the rest of the bag is still underwater
- Wipe the bag, then place in freezer

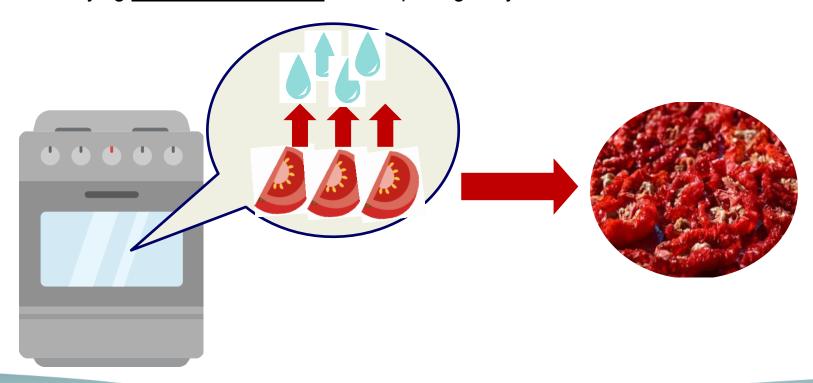


Drying/Dehydrating



What is Drying?

- Drying: the removal of moisture from food
- Extends shelf-life by preventing microbial growth and slowing down enzymes that spoil food
 - Note: drying does not inactivate these ripening enzymes





Drying: Tools and Ingredients Required

Tools	Ingredients
KnifeCutting boardParchment paperBaking sheet	Produce of choiceVegetable Oil*Salt*
	*Optional, as per recipe



How to Dry Foods in the Oven

How to Use an Oven as a Food Dehydrator: eHow

• https://www.youtube.com/watch?v=2REw7Dra4hE

Drying Food in the Oven: Key Points

- Heat your oven to the lowest temperature possible (usually 140°F 200°F)
- · Cut the produce in even sizes so they dry at the same rate
- Prop open oven doors about 2 3 inches to create air flow
 - Please use caution, especially with children!
- Never rush the drying process by raising the oven temperature
- Drying time will depend on the amount and moisture content of food, as well as room temperature and humidity
- Always store dried foods in a cool, dry place



Canning





What is Canning?

- Canning: a method of preserving foods by heating them to high temperatures while being sealed in an airtight container
- High-temperature heating reduces the number of enzymes and microorganisms in the food
 - Also helps push out air from the container
- Airtight containers limit the amount of oxygen for microbial growth
 - Also prevents microorganisms from re-entering the container
- Canning methods are different for high acid foods and low acid foods



Canning: High Acid Foods

pH < 4.6

- Fruits and fruit juices
- Jams, jellies, and other fruit spreads
- Tomatoes with added acid
- Pickles
- Relishes
- Chutneys
- Sauces
- Vinegars
- Condiments

- Must be heated to 100°C (212°F) prior to canning
- Can be canned using a boiling water canner



Canning: Low Acid Foods

pH > 4.6

- Vegetables
- Soups
- Stews
- Meats
- Poultry
- Seafood
- Tomato/vegetable mixtures or sauces

- Must be heated to 116°C (240°F) prior to canning
- Can only be canned using a pressure cooker



Different Types of Canning





Canning: Tools and Ingredients Required

Tools	Ingredients
 Mason jars 	 High acid food of choice*
 Snap lids (new) 	
 Screw bands 	*prepare as per recipe
 Saucepan 	directions
 Large, deep cooking pot 	
with fitting jar rack	
 Jar lifter tongs 	
• Ladle	
 Clean wooden board, 	
newspaper, or towels	
 Jar labels 	

How to Can Pickled Vegetables

How to Make Bread and Butter Pickles: Bernardin

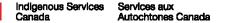
• https://www.youtube.com/watch?v=yRBj4z7a-2I

Canning: Key Points

- Special jars made for canning (Mason jars) must be used
 - Do NOT use jars that contained store-bought foods
- Snap lids cannot be reused
 - Screw bands and canning jars may be reused
- Always place jars on a rack in the canner to prevent breakage
- Canning jars should be heat-sanitized before filling
- For pickles, leave 1cm (1/2 inch) of headspace when filling
- · Wipe the rim of the jar with a damp cloth after filling
- The jars must be heated after filling in order to kill microorganisms and form a seal
 - If a good seal is not formed, store the product in the fridge
- For best quality, use home canned foods within 1 year

Freezer Jam Demonstration





Freezer Jam: Key Points

- Always use the quantity of fruit, sugar, and lemon juice specified in jam and jelly recipes, especially those that include added pectin
 - → Jam or jelly will not form otherwise
- Do not double recipes; make two batches instead
- For jams and jellies, leave 0.5cm (1/4 inch) of headspace when filling
- For best quality, use homemade freezer jam within 1 year

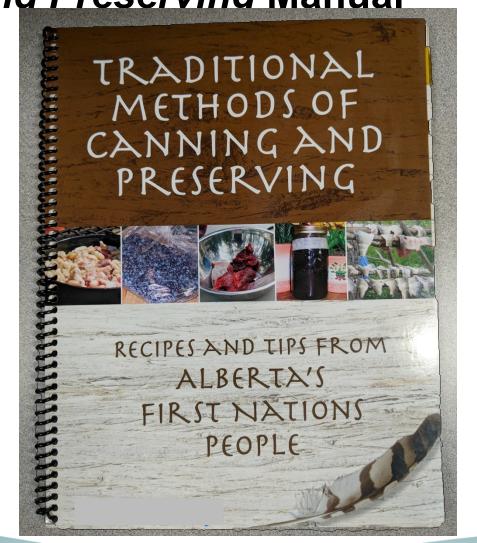




Questions?



Additional Resources: Traditional Methods of Canning and Preserving Manual



Additional Resources

More recipes available at:

- Allrecipes
 - <u>https://www.allrecipes.com</u>
- Bernardin Canada
 - https://www.bernardin.ca/recipes/default.htm?Lang=EN-US
- Martha Stewart
 - https://www.marthastewart.com/search/results?keys=oven%20dry

References

Content:

- Bernardin. (2016). *How to Guide: Introduction to Home Canning*. Retrieved from: https://www.bernardin.ca/en/howtoguide.htm
- University of Minnesota. (2017). *Methods for drying food at home*. Retrieved from: https://extension.umn.edu/preserving-and-preparing/methods-drying-food-home
- Yellowhead Tribal Council. (2007) Traditional Methods of Canning and Preserving.

Videos:

- Bernardin. (2015). Bread and Butter Pickles. YouTube. Retrieved from: https://www.youtube.com/watch?v=yRBj4z7a-2I
- CNET. (2016). *Use this hack to 'vacuum seal' any freezer bag*. YouTube. Retrieved from: https://www.youtube.com/watch?v=fO_lcL7lbgo
- Co+op Kitchen. (2013). Blanch and Freeze Fresh Vegetables: Co+op Kitchen. YouTube. Retrieved from: https://www.youtube.com/watch?v=M0vT8UFeQvU
- eHow Food. (2015). *How to Blanch Vegetables*. YouTube. Retrieved from: https://www.youtube.com/watch?v=svHjQwJcJaE
- eHow Food. (2015). How to Use an Oven as a Food Dehydrator. YouTube. Retrieved from: https://www.youtube.com/watch?v=2REw7Dra4hE&t=19s

Pictures:

- Piktochart. (2018). Clipboard, Carrot, Cooking Pot, Fridge, Oven, and Tomato Slices. Retrieved from: https://piktochart.com/
- All other images: Clip Art