Food preservation is preparing fresh food for long-term storage by using techniques that prevent the food from spoiling. The natural moisture in many foods can become a breeding ground for organisms like bacteria and fungi, which can be harmful if eaten. Some of the ways of preserving food include drying, removing the natural moisture from the food, adding a preservative that prevents organisms like bacteria from living in the food, and sealing the food in an airtight container.

Today refrigeration allows for us to keep fresh food longer, but we still depend on many preserved foods like jars of spaghetti sauce and boxes of cereal. For centuries people needed to preserve food at home, so their families would have enough to eat year round. In the video Anna visited a small farm from the late 18th century where they commonly used food preservation techniques like drying, salting, pickling, and jellying.

**Ingredients**
- 1/2 pound of green beans, washed
- water, liquid and ice

**Equipment**
- large stockpot
- colander
- large bowl
- clean, kitchen twine
- sterilized kitchen (trussing) needle
- clean, kitchen towel

**Air Dried Green Beans**

In the video Anna dried green beans by simply stringing them together on a thread. In this recipe we’ll first blanch the beans to preserve their color and to help break down their enzymes, so they soften and can dry more quickly. To blanch we’ll use boiling water to partially cook the beans, then we’ll use ice water to immediately stop the process.

1. Fill a large stockpot 2/3 full of water. Put a lid on the pot and bring the water to a boil over high heat on the stovetop.

2. While waiting for the water to boil, set up the rest of your equipment. Fill a large bowl 2/3 full of ice water and set it on the counter next to the sink. Place the colander inside the sink.

3. Once the water comes to a boil, carefully place the green beans inside the pot. Make sure all the beans are covered by the water, and allow the water to return to a boil. Boil for 2 minutes or until the beans turn a vibrant green, but no longer.
AIR DRIED GREEN BEANS... CONTINUED

4. Immediately drain the beans into the colander, then shake the excess water from the beans and pour them into the bowl of ice water.

5. After the beans are cool to the touch and the ice has mostly melted, drain the beans again in the colander. Shake off the excess water. Thoroughly dry the beans with the kitchen towel.

6. Thread the needle with the kitchen twine, then begin to string the beans onto the twine. Try to pierce the beans in the center, and leave some space between each of the beans so they have enough room to allow the air to completely circulate around them. Create 1-2 foot long strings of beans.

7. Hang the strings in a warm, dry place, out of the sunlight. Drying times will vary. Once the beans are dry they will last up to 3 months. To eat the beans, rehydrate them by soaking in liquid until soft then season as desired, or simply add the dry beans to boiling soups.

EASY REFRIGERATOR PICKLES (makes 2 quarts)

‘Pickling cucumbers’ are about 5 inches long. They should be firm to the touch, dark green in color, and have lots of ridges and bumps on their surface. These characteristics will give you a crisp, crunchy pickle!

1. Cut the cucumbers into 1/2-inch-thick rounds, and transfer to a colander set in a bowl. Toss well with salt. Refrigerate the salted cucumber rounds for 1 hour.

2. Rinse cucumber rounds well with water and allow to drain. Pat the rounds dry between paper towels. Transfer cucumber slices to a large bowl.

3. Bring the water, vinegar, dill seed, and garlic to a boil in a medium saucepan, stirring occasionally. Reduce heat, and allow to simmer for 4 minutes. Remove mixture from heat and cool slightly, about 10 minutes.

4. Meanwhile, sterilize airtight containers (ex: mason jars) by running them through a sterilization cycle in the dishwasher, or boiling the jars and lids in water for 10-15 minutes and letting them cool.

5. Add chopped dill to cucumber slices, and toss to combine. Pour in the boiled vinegar mixture. Let cool completely, about 30 minutes.

6. Transfer pickle mixture to the sterilized airtight containers, and refrigerate for at least 1 week (pickles will keep 3 weeks more).

<table>
<thead>
<tr>
<th>Ingredients</th>
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<tbody>
<tr>
<td>2 pounds pickling cucumbers, washed</td>
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<tr>
<td>3 tablespoons coarse salt (ex: kosher salt)</td>
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<tr>
<td>3 cups water</td>
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<tr>
<td>2 cups distilled white vinegar</td>
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<tr>
<td>1 tablespoon dried dill seed</td>
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<tr>
<td>4 cloves of garlic, peeled</td>
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<tr>
<td>2 bunches fresh dill, coarsely chopped</td>
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<table>
<thead>
<tr>
<th>Equipment</th>
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<tr>
<td>cutting knife</td>
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<tr>
<td>colander and bowl</td>
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<tr>
<td>medium saucepan</td>
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<tr>
<td>airtight (mason) jars</td>
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Read the descriptions of common 18th century food preservation techniques. Find the hidden, underlined key words in the word search puzzle below. Words may be spelled horizontally, vertically, backwards or diagonally.

**Drying** Food is exposed to open air so that the moisture in the food **EVAPORATES**. Stringing the food and then **HANGING** it from a high place, like a ceiling rafter near the **KITCHEN** fire, was a common method of **DRYING** food.

**Pickling** Food is combined with a boiled acidic solution (like **VINEGAR**) and spices in a sealed jar. **BOILING** the vinegar directly in the jar, adding the food, and then sealing the jar with a stretched **ANIMAL BLADDER** was common. Sometimes, before **PICKLING** begins, excess liquid from the food is removed by soaking (or boiling) it in a **BRINE** solution (salt water), then straining it.

**Salting** Food is stored in a **BARREL** of salt, so that the salt can draw the **MOISTURE** out of the food. Sometimes a small amount of **SALTPETER** (a chemical now known as a nitrate) is added to the salt to aid the process. After the **SALTING**, the food is often hung in a dry place.

**Jellying** Food is boiled with **SUGAR** until a gel forms, and then stored in a clean sealed **JAR**. The different types of gels formed from **JELLING** include: jellies, jams, conserves, preserves, and marmalades. **FRUITS** were the most commonly jellied foods, but sometimes walnuts and even tomatoes were jellied.
PART THREE

IDENTIFICATION: Identify each of the four commonly used food preservation techniques by coloring the picture below. Use the color GREEN for dried foods, BLUE for salted foods, YELLOW for pickled foods, and ORANGE for jellied foods.

- Dried apple slices
- Salted fish
- Dried pig feet
- Dried mushrooms
- Jellied strawberries
- Jellied walnuts
- Jellied eggs
- Jellied apples
- Pickled cucumbers
- Pickled cabbage
- Barrels of salted pork
- Barrels of salted pork