## Principles of the

 Bakeshop

## Ingredients



## $\bullet$ <br> Varieties of Wheat Flour



## - <br> Flour Milling

- During milling, different parts of the wheat are used or removed at different stages to create different types of flour.



## Types of Flour

- Wholemeal - Made from the whole wheat grain without any additional ingredients or any parts being removed during the milling process.


## Types of Flour

- Stoneground - This is wholemeal flour ground in a traditional way between two stones using the whole wheat grain with no additional ingredients or any parts being removed.


## Types of Flour


o Brown - This usually contains about $85 \%$ of the original grain. During milling some bran and germ is been removed.

- Wheat germ white or brown flour with at least $10 \%$ made up of wheat germ added during the milling process.


## Types of Flour

- Organic -This is made from grain that has been grown to organic standards. Growers and millers must be registered and are subject to regular inspections.


## Types of Flour

- White - This usually contains around $75 \%$ of the wheat grain. During milling most of the bran and wheatgerm is removed.



## Flours

## Dependent on the amount of protein found in the flour

| Type of Flour | Uses | \% Protein |
| :---: | :---: | :---: |
| Cake | Tender Cakes | $7-9.5 \%$ |
| Pastry | Biscuits, Pie <br> Crust | $7.5-12 \%$ |
| All-Purpose | General Baking | $10-13 \%$ |
| Bread | Yeast Breads | $12-15 \%$ |
| Whole-Wheat | Breads | $13-14 \%$ |
| High-Gluten | Increase protein <br> content of weaker <br> flours for bread- <br> making | $41-42 \%$ |



## Sugar and Sweeteners



## Provide:

o Flavor

- Color
- Tenderize products by weakening gluten strands
- Food for yeast
- Preservative
- Creaming or foaming agent for leavening


## Types of Sugar

| RAW | Unfit for direct use |  |
| :--- | :--- | :--- |
| TURBINADO <br> (closest edible sugar <br> to raw sugar) | oLight brown, coarse <br> crystals <br> oCaramel flavor <br> oNot recommended for <br> substituting brown and <br> granulated | oLarge, coarse crystal <br> oDoes not dissolve <br> oDecorating purposes <br> only |
| SANDING | oFine, uniform crystals <br> oAll purpose sugar |  |
| GRANULATED |  |  |

## Types of Sugar continued

| CUBE | oFormed by pressing <br> moistened granulated <br> sugar into molds |  |
| :--- | :--- | :--- |
| BROWN | oRefined sugar with <br> some of the molasses <br> returned to it |  |
| SUPERFINE OR <br> CASTOR | oGranulated with a <br> smaller-crystal size <br> oDissolves quickly and <br> produces light, tender <br> products |  |
| POWDERED <br> OR <br> CONFECTIONERS | oMade by grinding <br> granulated sugar <br> through varying degrees <br> of fine screens <br> oOften used for icings <br> and frostings |  |

## Liquid Sweeteners

- Corn Syrup
- Extracted from corn kernels and treated with an acid or enzyme
- Hygroscopic: Water-attracting
- Keeps products moister and fresher longer
- Honey
- Created by honey bees collecting nectar
- Maple Syrup
- Sap of sugar maple trees
- Maple-flavored: Corn syrups combined with artificial colors and flavorings
- Molasses
- Liquid by-product of sugar refining


## Cooking Sugar

## Sugar Syrups:

1. Cooked Sugar

Melted sugar cooked to a specific temperature

- Caramel, meringue, candy

2. Simple Syrup

Mixture of sugar and water
Moisten cakes, make sauces, sorbets, and beverages

## Simple Syrups

- Light:
- 2:1 water to sugar ratio
- Medium:
- 1.5:1 water to sugar ratio
- Heavy:
- 1:1 water to sugar ratio
- Basic, all purpose syrup

