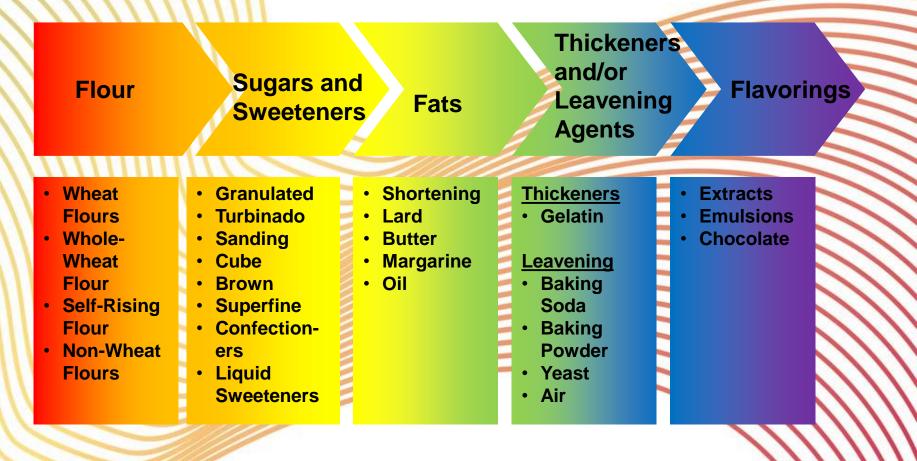
Principles of the Bakeshop

Ingredients

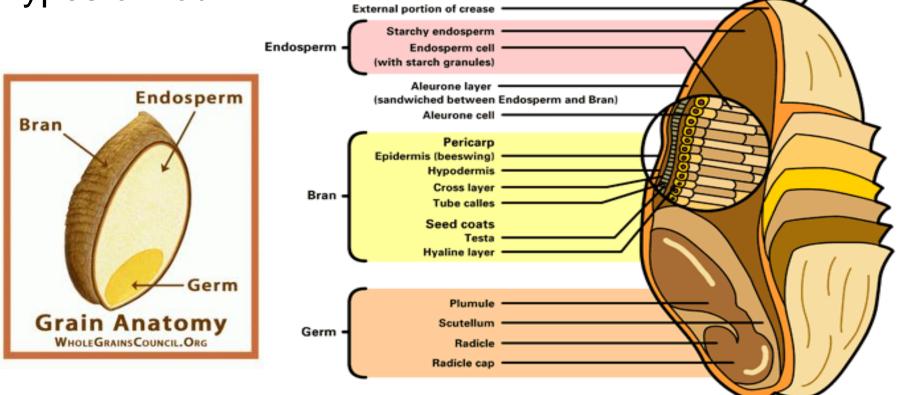


Varieties of Wheat Flour



Flour Milling

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







• 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.



• 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.





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

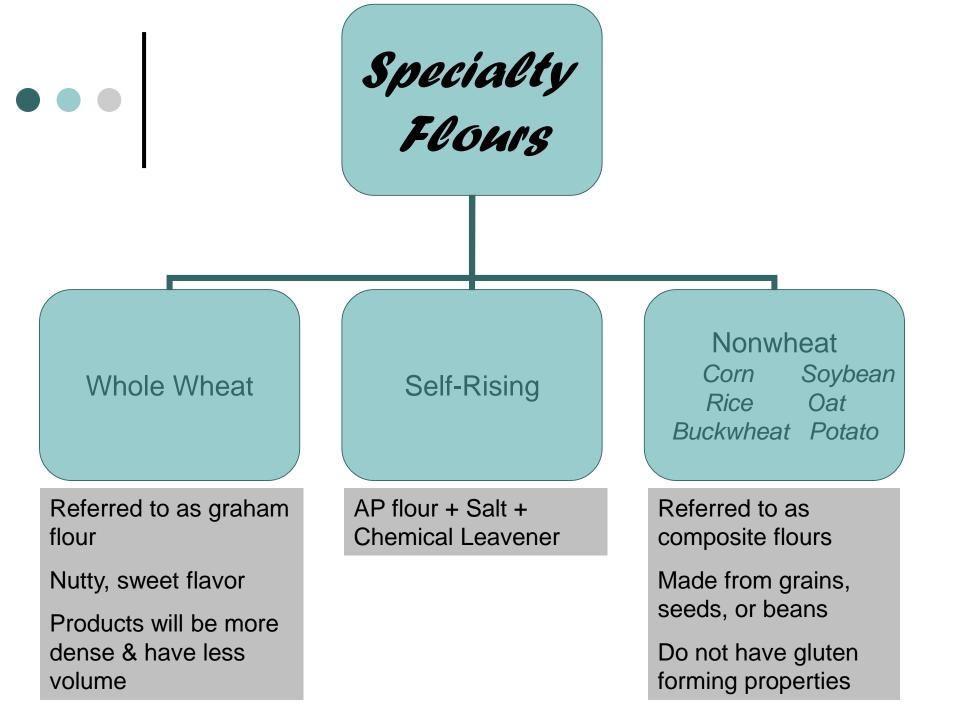


Flours

•••

Dependent on the amount of protein found in the flour

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



••• Sugar and Sweeteners



Provide:

- 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 (closest edible sugar to raw sugar)	 Light brown, coarse crystals Caramel flavor Not recommended for substituting brown and granulated 	
SANDING	 oLarge, coarse crystal oDoes not dissolve oDecorating purposes only 	
GRANULATED	oFine, uniform crystals oAll purpose sugar	

• • • Types of Sugar continued

CUBE	 Formed by pressing moistened granulated sugar into molds 	
BROWN	 Refined sugar with some of the molasses returned to it 	
SUPERFINE OR CASTOR	 Granulated with a smaller-crystal size Dissolves quickly and produces light, tender products 	
POWDERED OR CONFECTIONERS	 Made by grinding granulated sugar through varying degrees of fine screens Often used for icings and frostings 	

Liquid Sweeteners

o 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

o Molasses

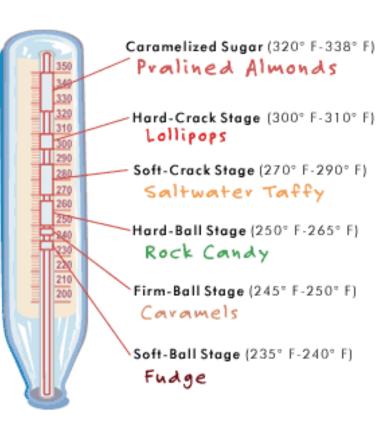
Liquid by-product of sugar refining

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