

Principle of Food Science

Chapter 1: Introduction

Food science = study of raw food material and their behaviors during formulation (all step material to packaging/ storage) : **farm to table**

+ Understand food composition and various condition
[material / process / storage / transportation] *mainly concern about quality and safety*

military > human > astronauts

Nutrition = how the body uses food & maintain health

- Food chemistry : chemical, nutritional, toxicological aspect of food and ingredients
- Food analysis : each components of food
- Food microbiology : micro-organisms, food spoilage
- Food processing : raw materials, preservation, processing factors that affect quality
- Food engineering : operation used in food processing
- Nutrition, food marketing, sensory evaluation
- Culinary science : combined food science and culinary

Want to know more!!!

high pressure preservation

freeze dry fruit

Chapter2 : Carbohydrates

Simple carbohydrates

: small molecular size, sub unit of sugar

- monosaccharide

1. glucose/ dextrose : contain aldehyde group
> in blood stream, sap of plants [our blood is beta glucose]
2. fructose/ levulose : contain ketone group :
> in fruits, veggies, honey
*sweetest (sweeter than sucrose)
*not easily to crystallised, soluble
3. galactose : component of lactose [cannot find free form]
> vegetable gum(new form of dietary fiber)

Food Science Chapter 1 Quiz

Jiyuan Zhang



Food Science Chapter 1 Quiz:

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