PHARM.D • YEAR 1

Pharmaceutical Inorganic Chemistry

CHAPTER 19

Dental Products

PPT CHAPTER COVER

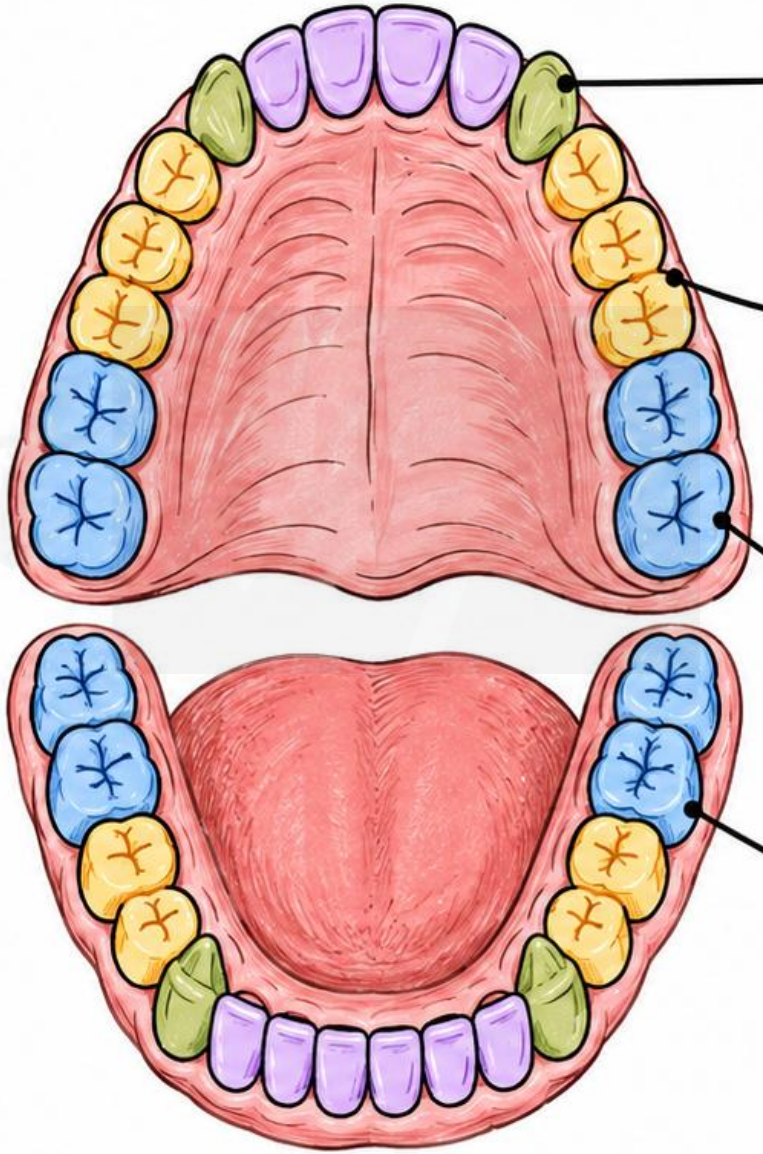


DOCTOR OF PHARMACY

Types and Functions of Teeth

- Teeth are hard, calcified structures in the mouth that help in biting, tearing, and chewing food, aid speech, and maintain facial structure.
- Human teeth are categorized into four main types, each serving a specific function:

1. Incisors – Function: Flat and chisel-shaped, designed for biting and cutting food into smaller pieces.
2. Canines – Function: Sharp and pointed, used for tearing and grasping food.



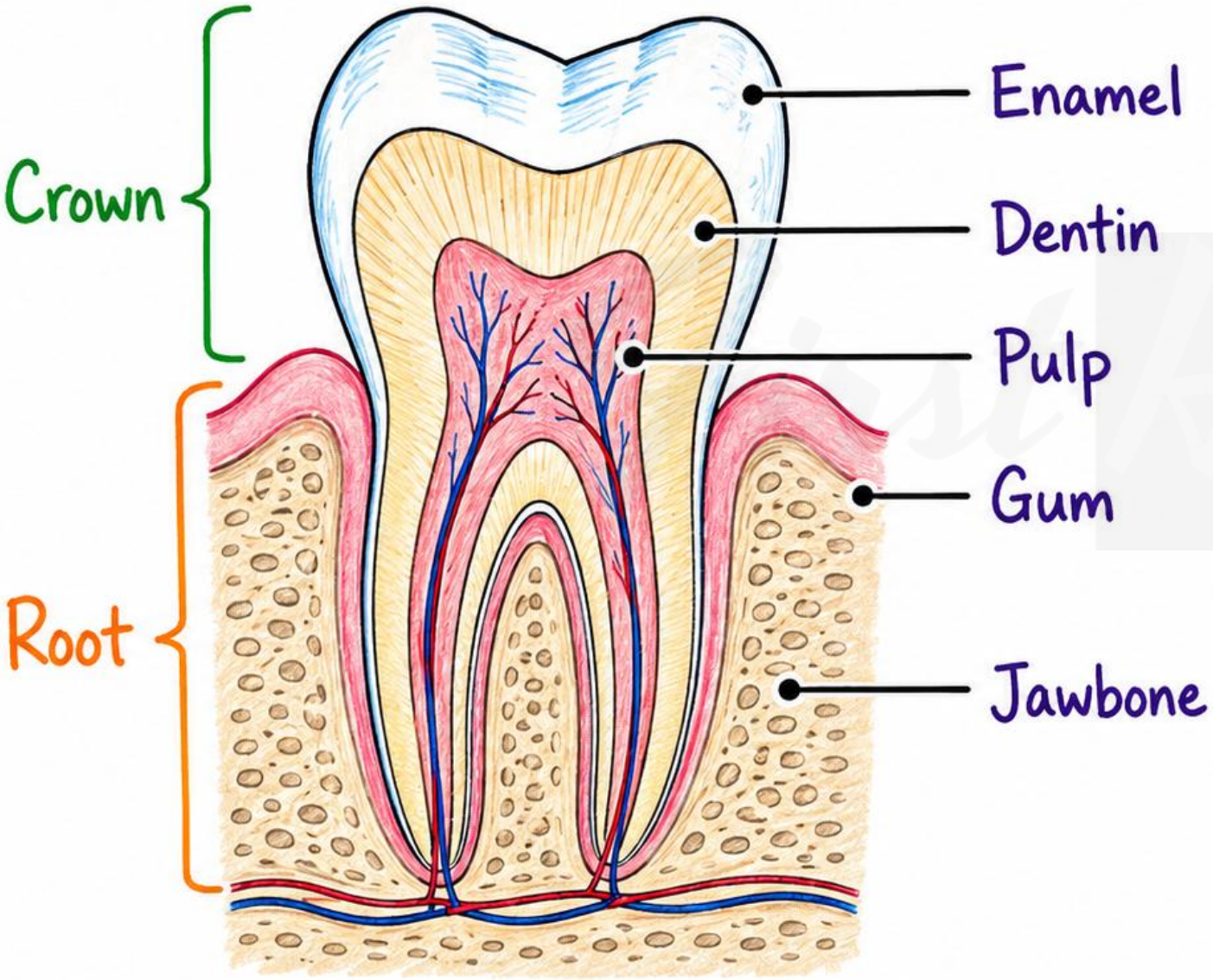
Incisors
Biting and cutting food into smaller pieces.

Canines
Tearing and grasping food.

Premolars
Crushing and grinding food.

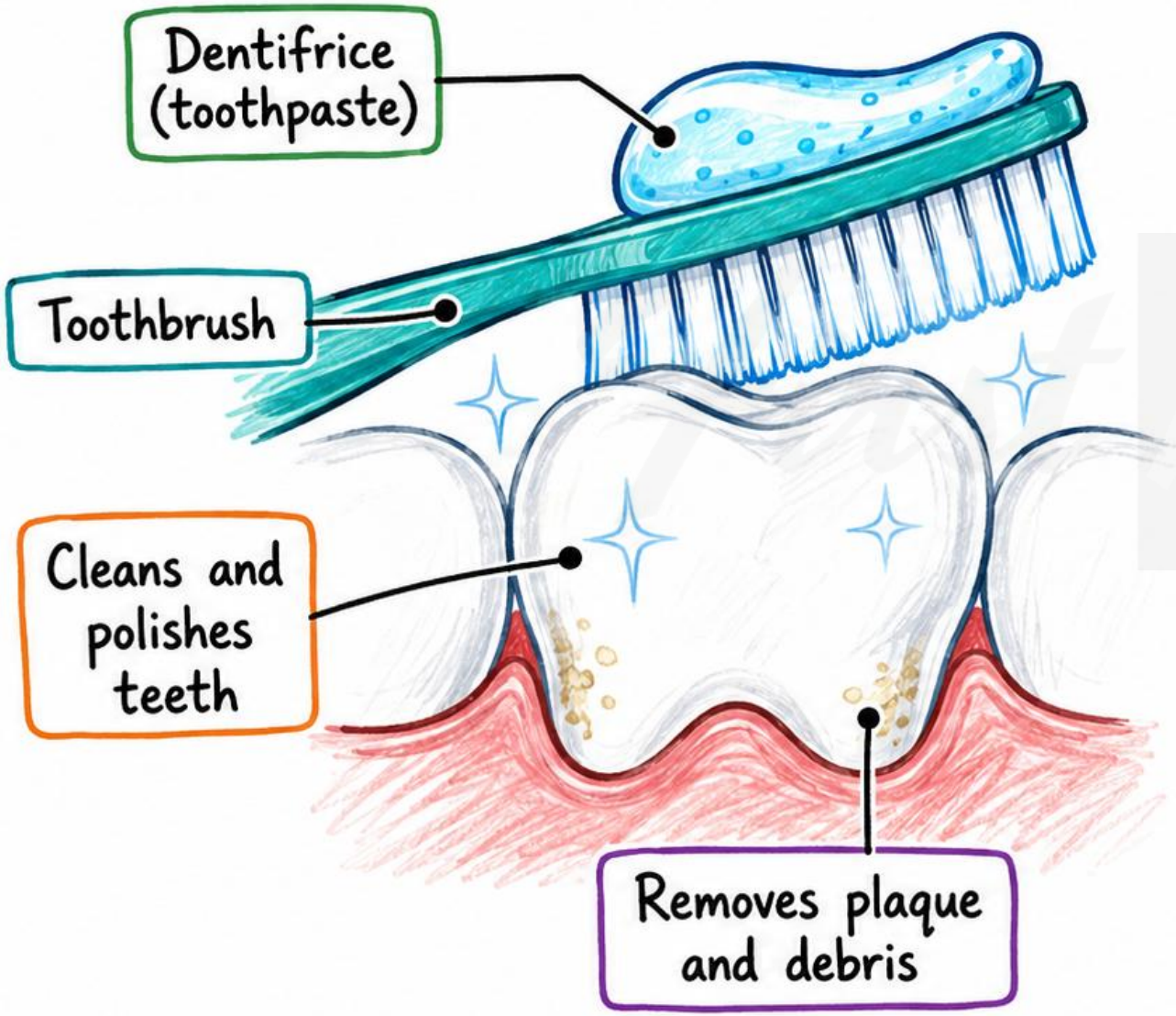
Molars
Chewing and grinding food.

Tooth Structure



1. Crown: Visible part above the gum line, covered by enamel for protection.
2. Root: Embedded in jawbone, not visible; anchors the tooth and provides stability.
3. Enamel & Dentin: Enamel is the outer, highly mineralized layer; dentin forms the calcified tissue beneath it.

Dentifrices: Purpose and Types

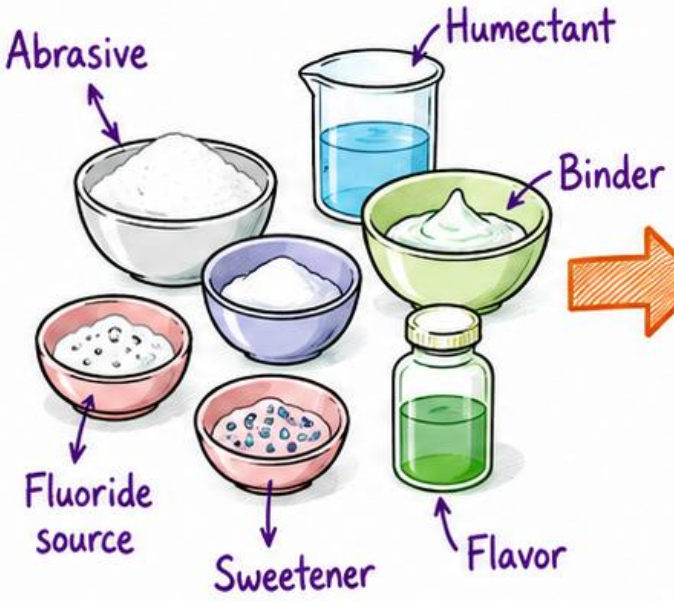


- Dentifrices are substances used with a toothbrush to clean and polish teeth.
- They help remove plaque and debris, leaving teeth clean and polished.
- Tooth powders and gels are alternative forms that serve similar purposes.

Toothpaste Formulation

- Toothpaste: The most common form.
- Semi-solid preparation that delivers fluoride, cleansing agents and other actives for effective oral care.

1 Weigh & Measure



2 Mix & Homogenize



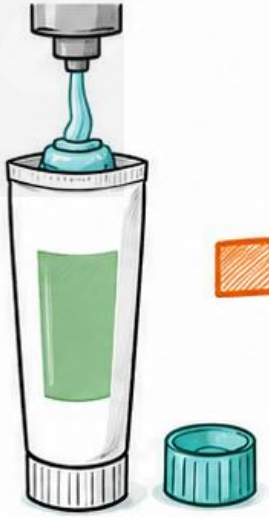
Uniform dispersion of all ingredients

3 Deaerate



Remove entrapped air for smooth texture

4 Fill & Seal



Pack into tubes and seal

5 Quality Check



Ensure consistency, safety and efficacy

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