



# INTRODUCTION TO DENTISTRY

Lecture Three

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# TERMINOLOGY OF RESTORATIVE DENTISTRY

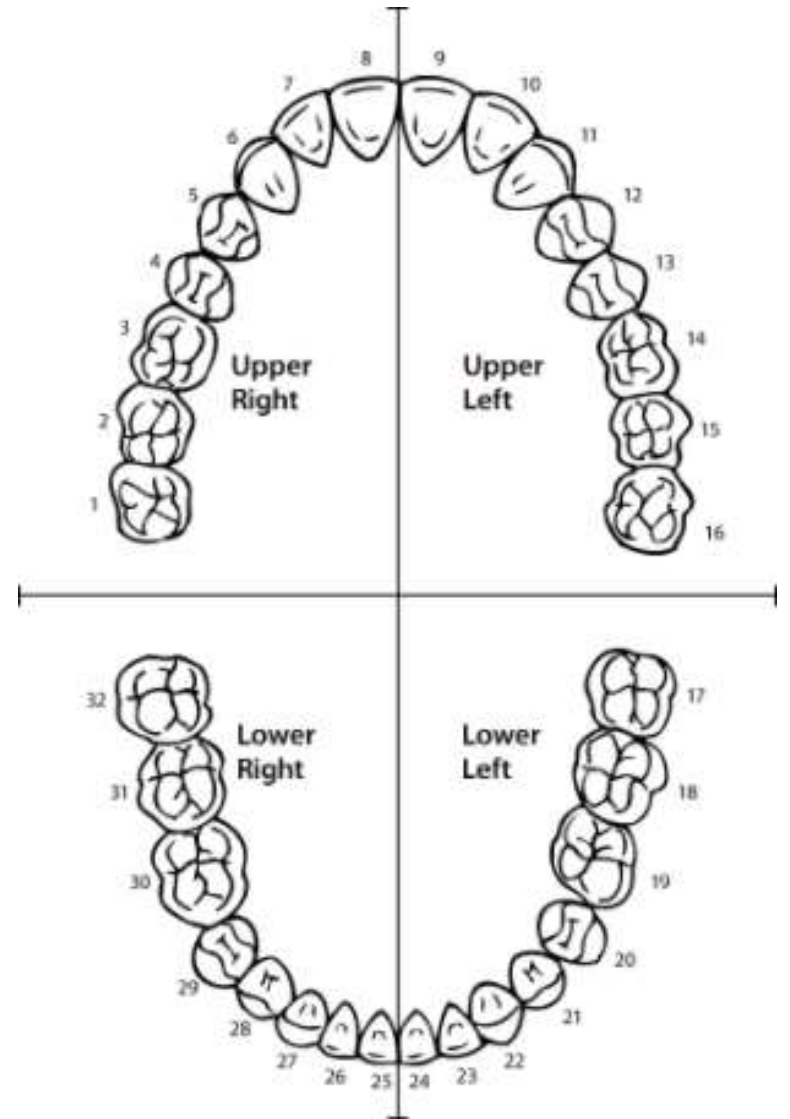
مصطلحات في المعالجة  
التحفظية



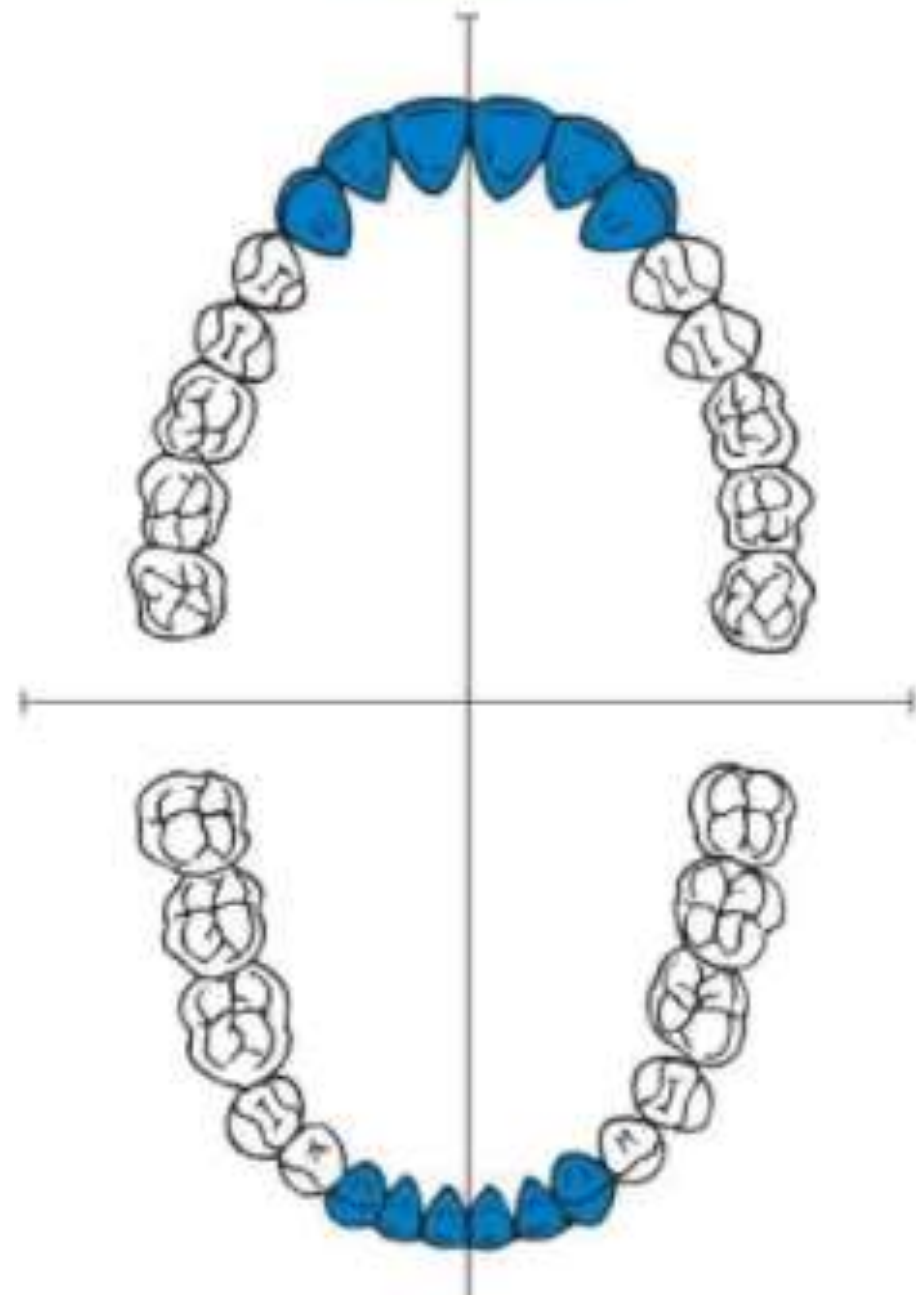
# Tooth Surfaces and Landmarks

## Surfaces of the Teeth

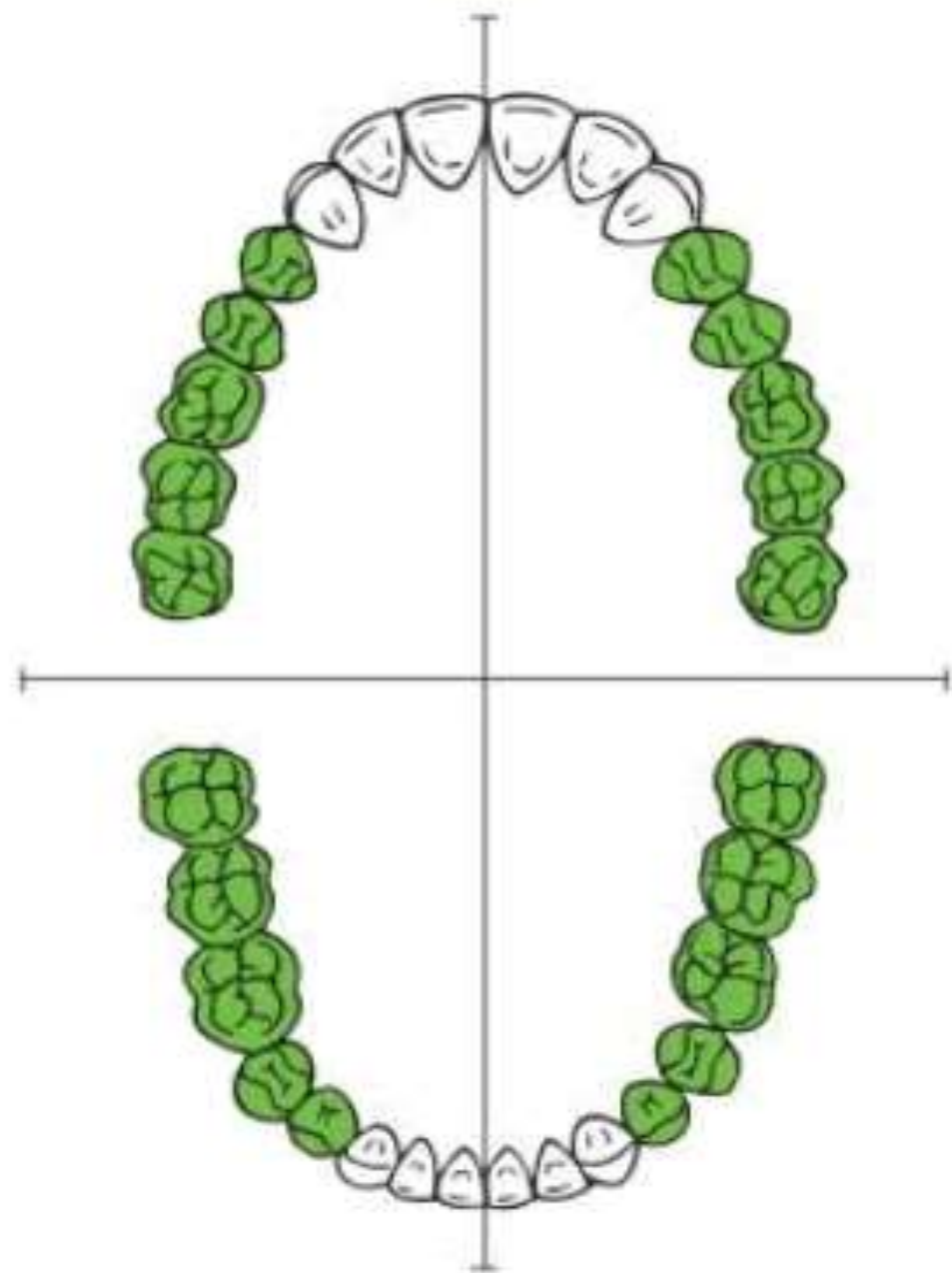
**REMEMBER:** The midline is an imaginary line passing in-between the upper and lower central incisors that bisects the head into right and left sides.



Anterior teeth



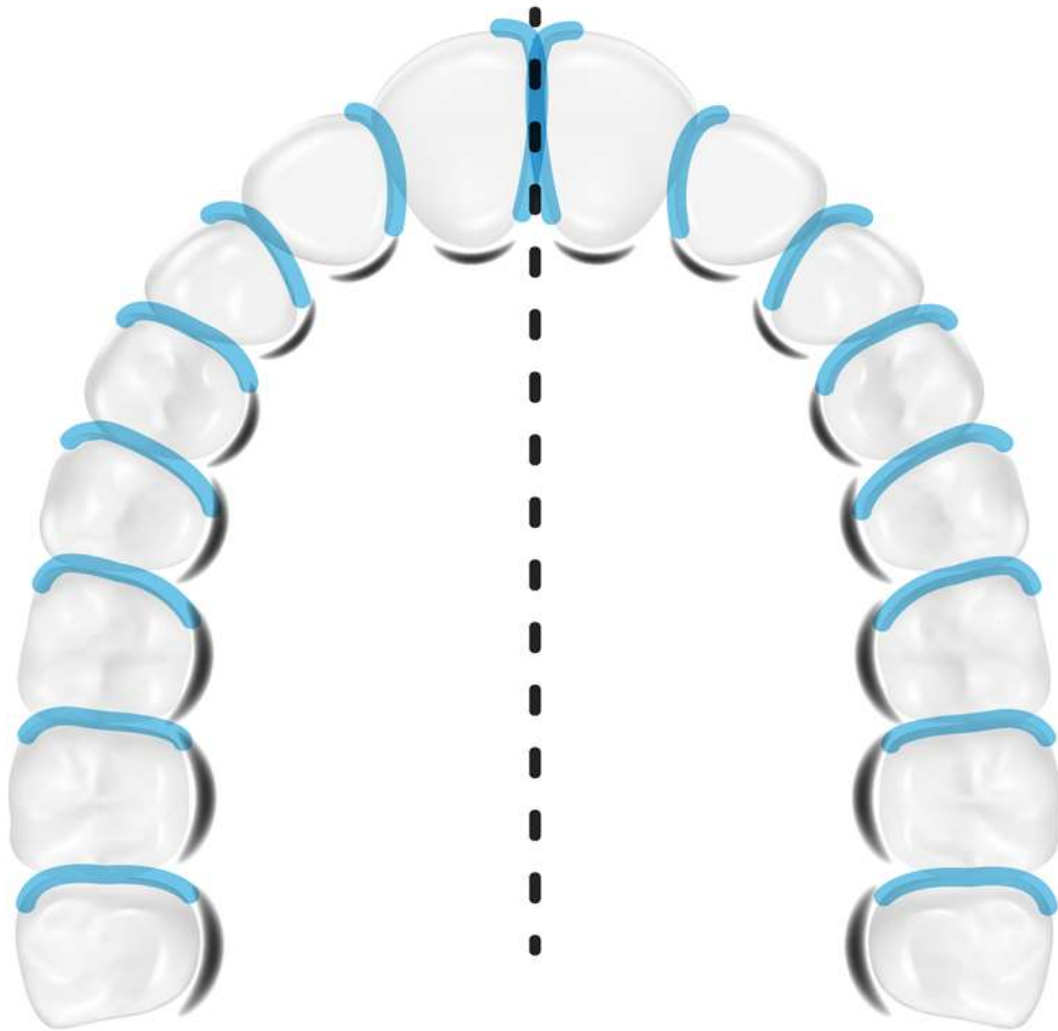
Posterior teeth





•The **proximal surface** is the side or surface of a tooth next to an adjacent tooth in the same arch (jaw).

● **Proximal**

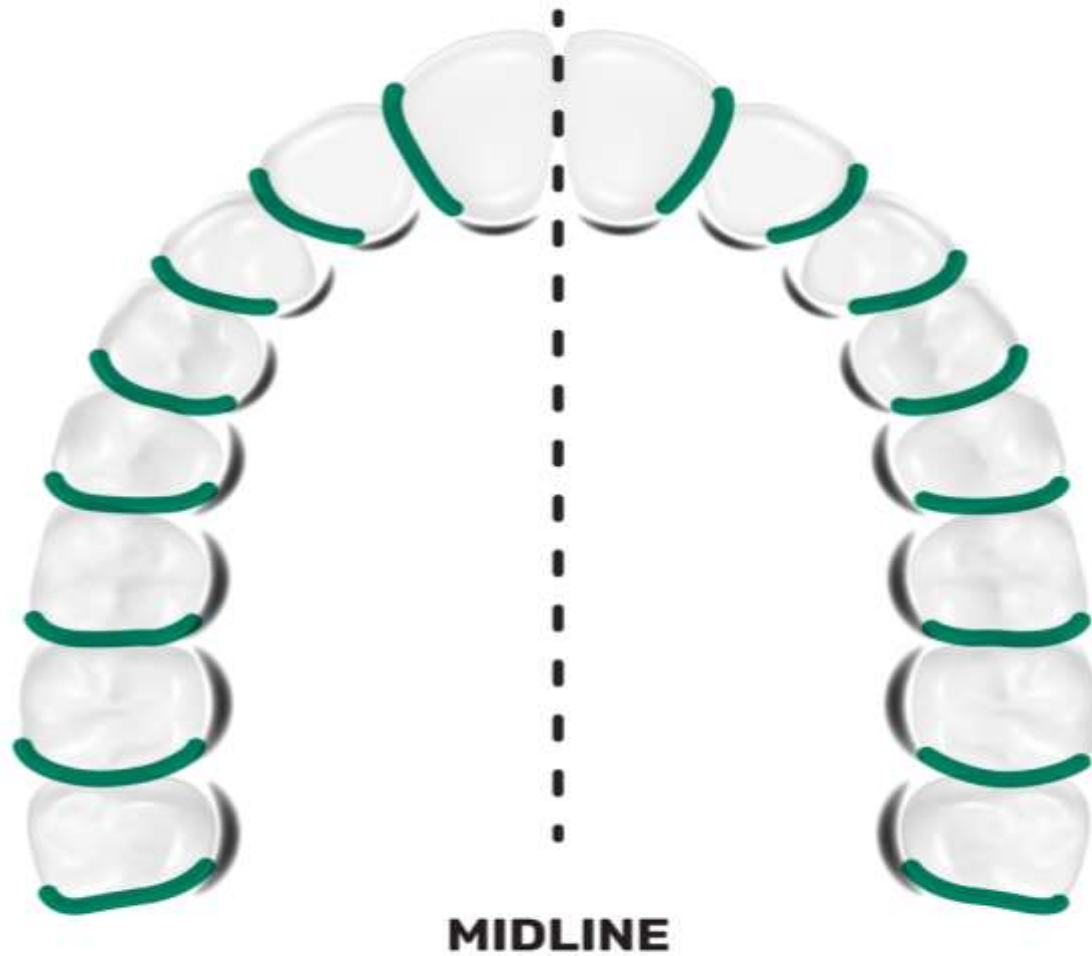


**MIDLINE**

**THE MESIAL SURFACE** is a proximal surface that faces or is closer to the midline of an arch.

● Mesial



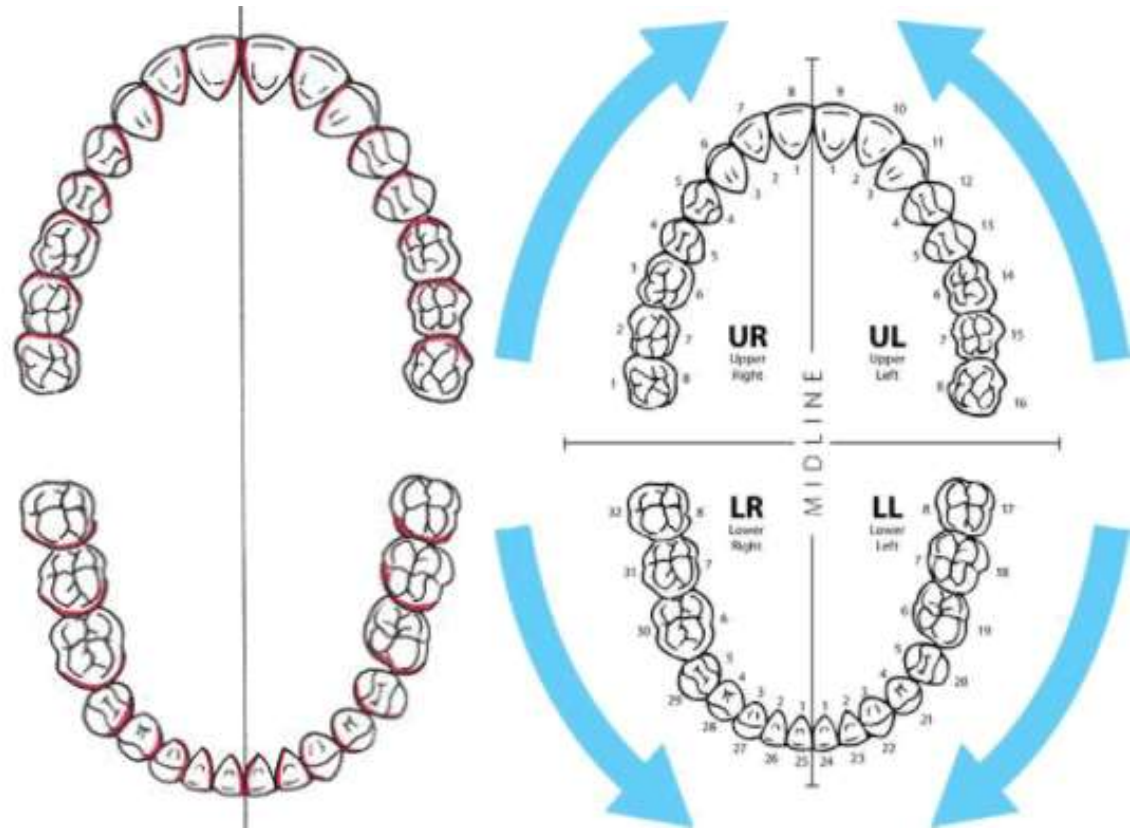


**THE DISTAL SURFACE** is the side or surface that faces away or is further away from the midline of an arch.

● Distal

## To Sum UP

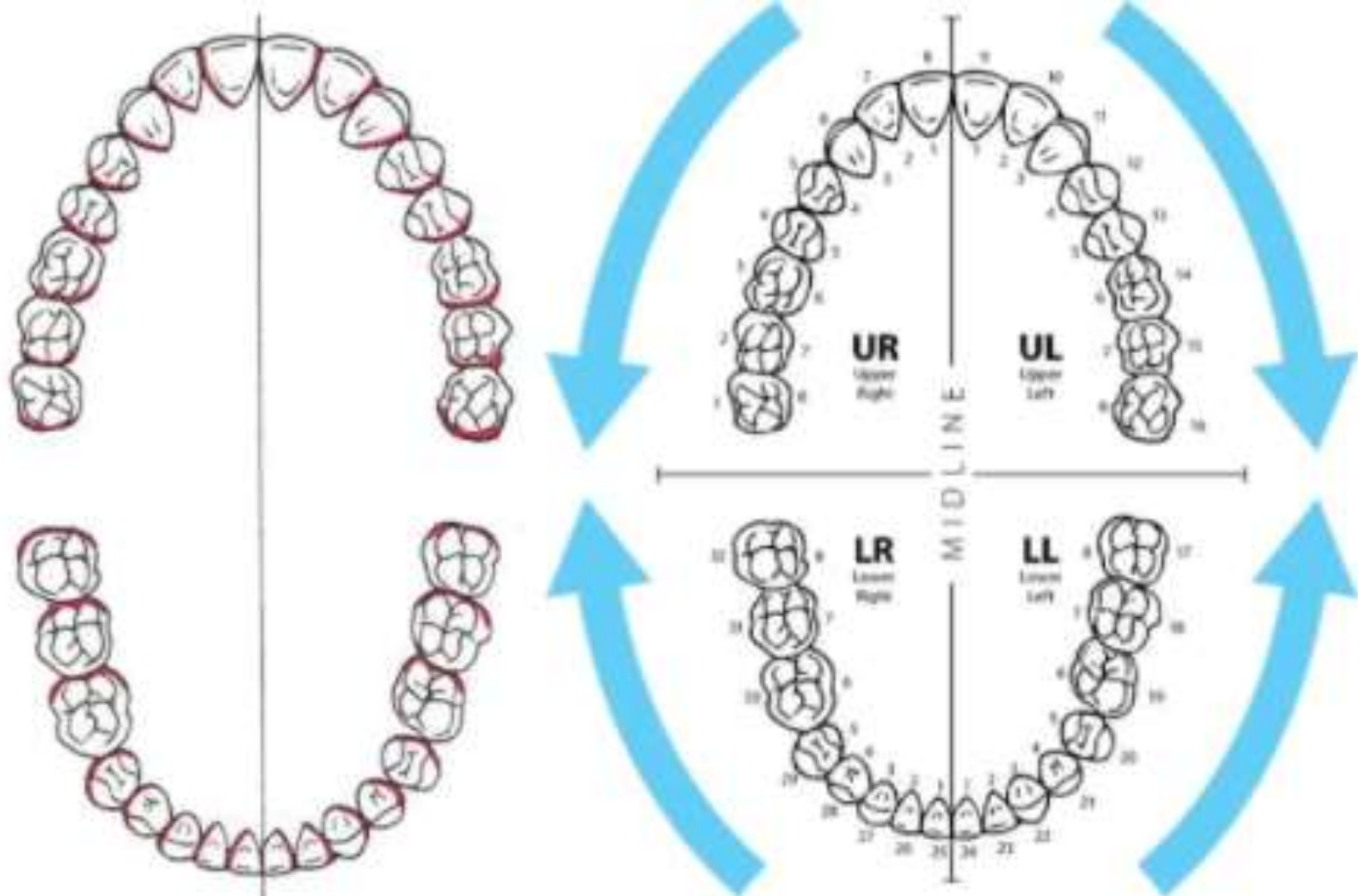
- ✓ The surface of a tooth that is directed toward the midline and/or toward the anterior (front) of the oral cavity is called the mesial surface.





## To Sum UP

- ✓ The surface of a tooth that is directed away from the midline and/or toward the posterior (back) of the oral cavity is called the distal surface.





## THE FACIAL SURFACE

is the surface of a tooth towards the face  
Facial can apply to anterior (front) teeth as well as posterior (back) teeth.

● Labial

● Buccal

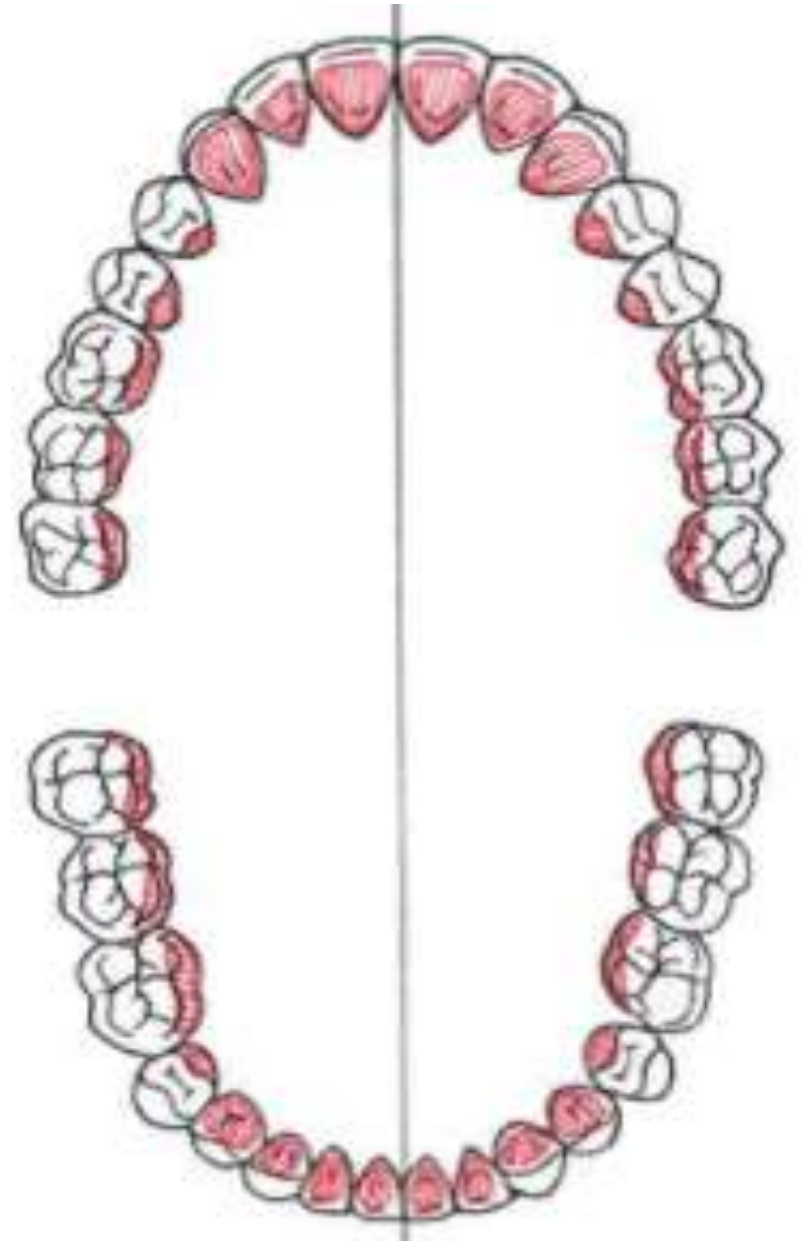
(outer surface of a tooth in the mouth resting against or next to the cheeks or lips).



The labial surface faces the lip (anterior) while the buccal surface faces the cheek (posterior).

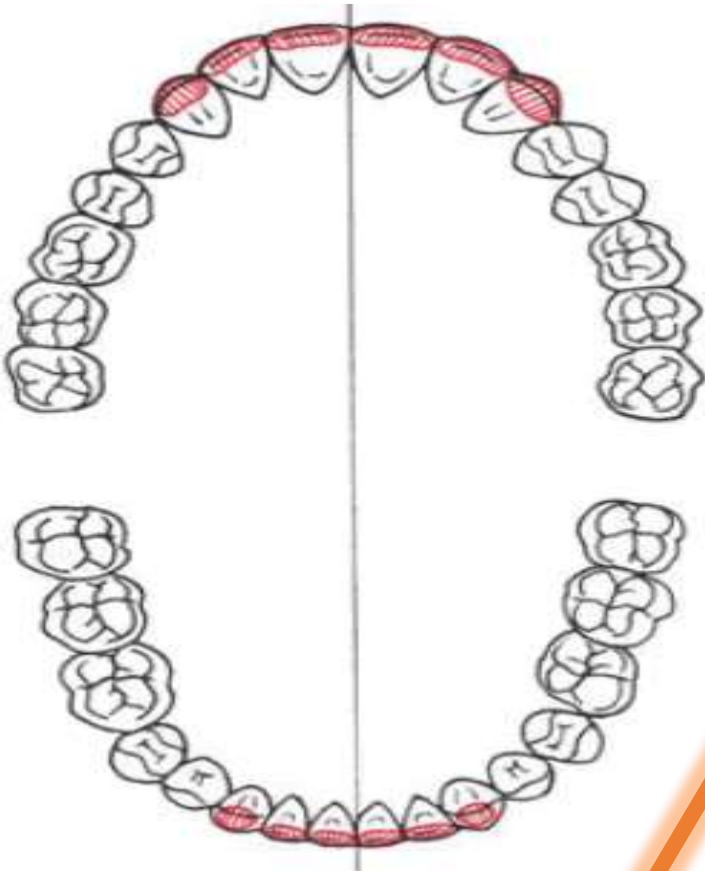
- Labial
- Buccal

- ❖ The lingual surface is the surface adjacent to the tongue.
- ❖ It is also sometimes referred to as the palatal surface since it is adjacent to the palate.

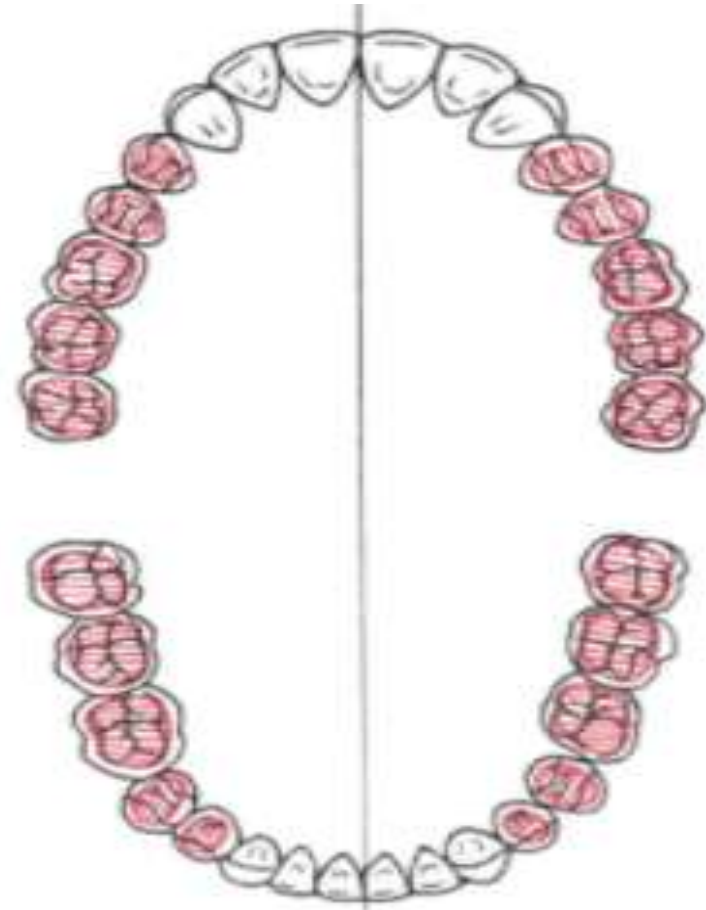


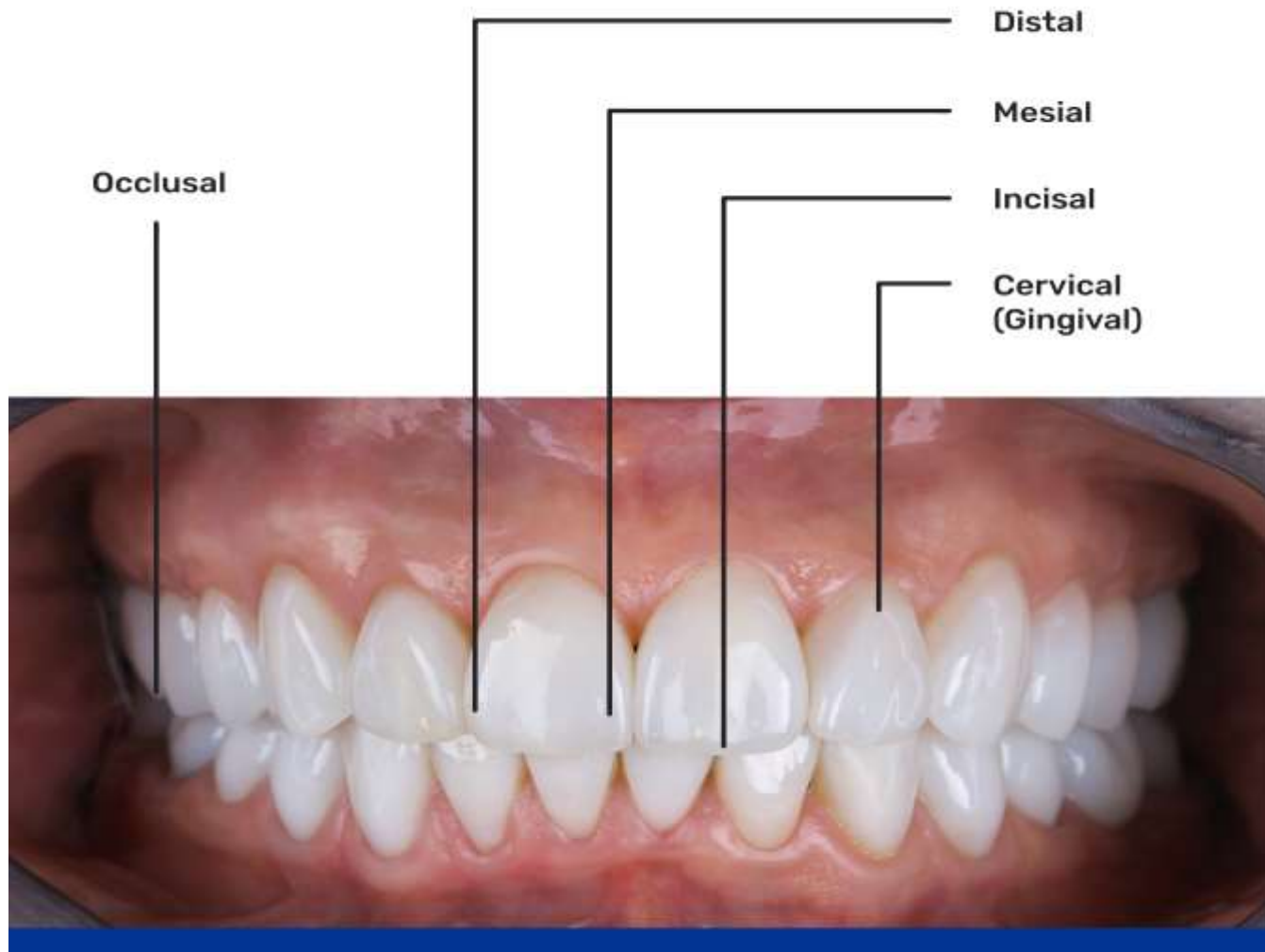


The incisal ridge (edge) is the cutting surface of anterior teeth.

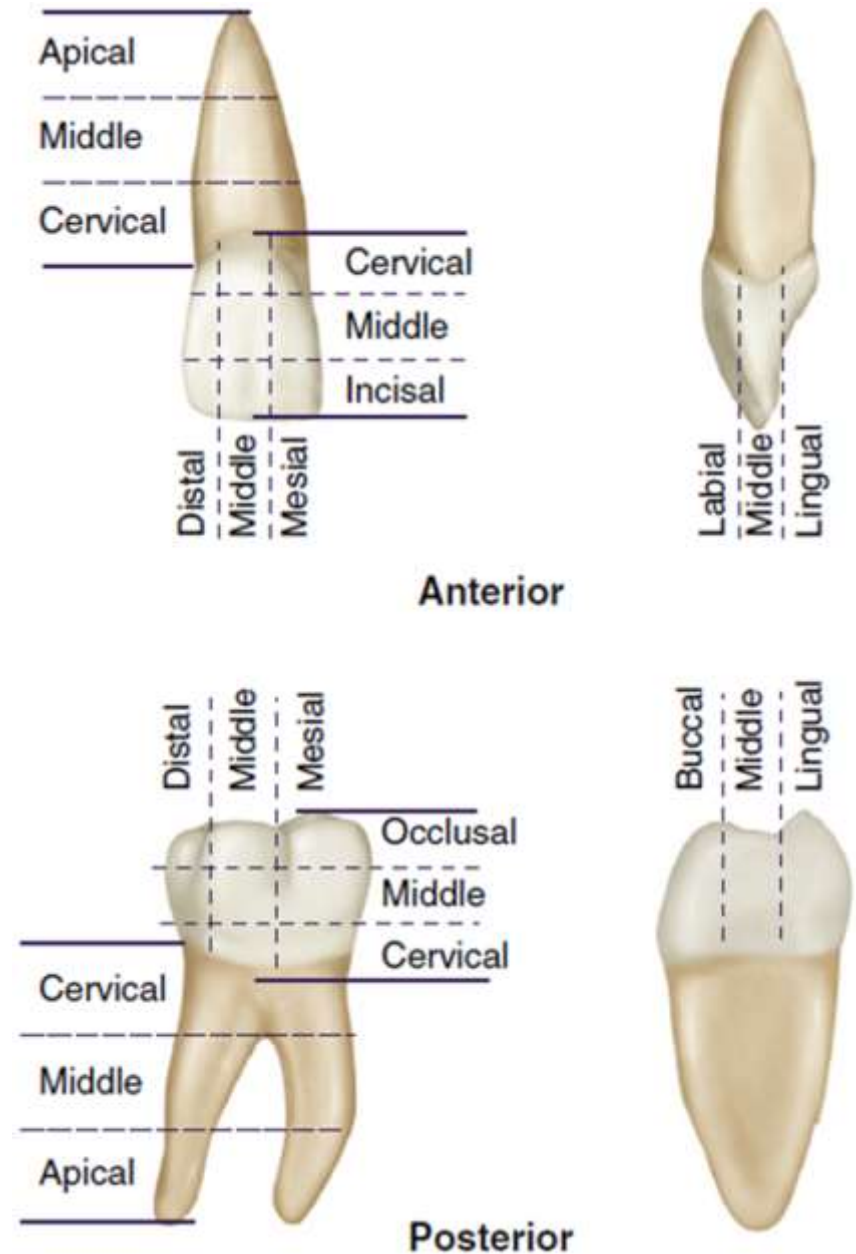


The occlusal surface is the biting or chewing surface of posterior teeth.



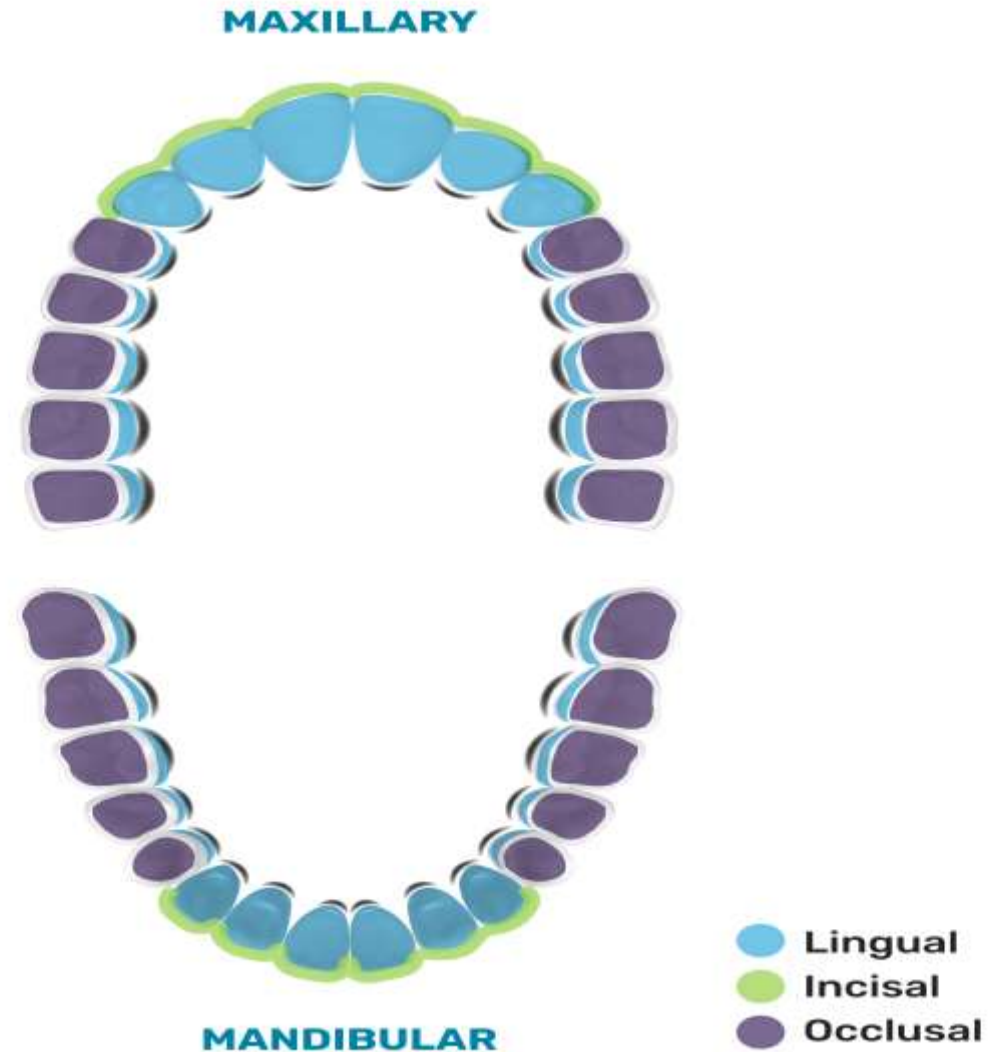


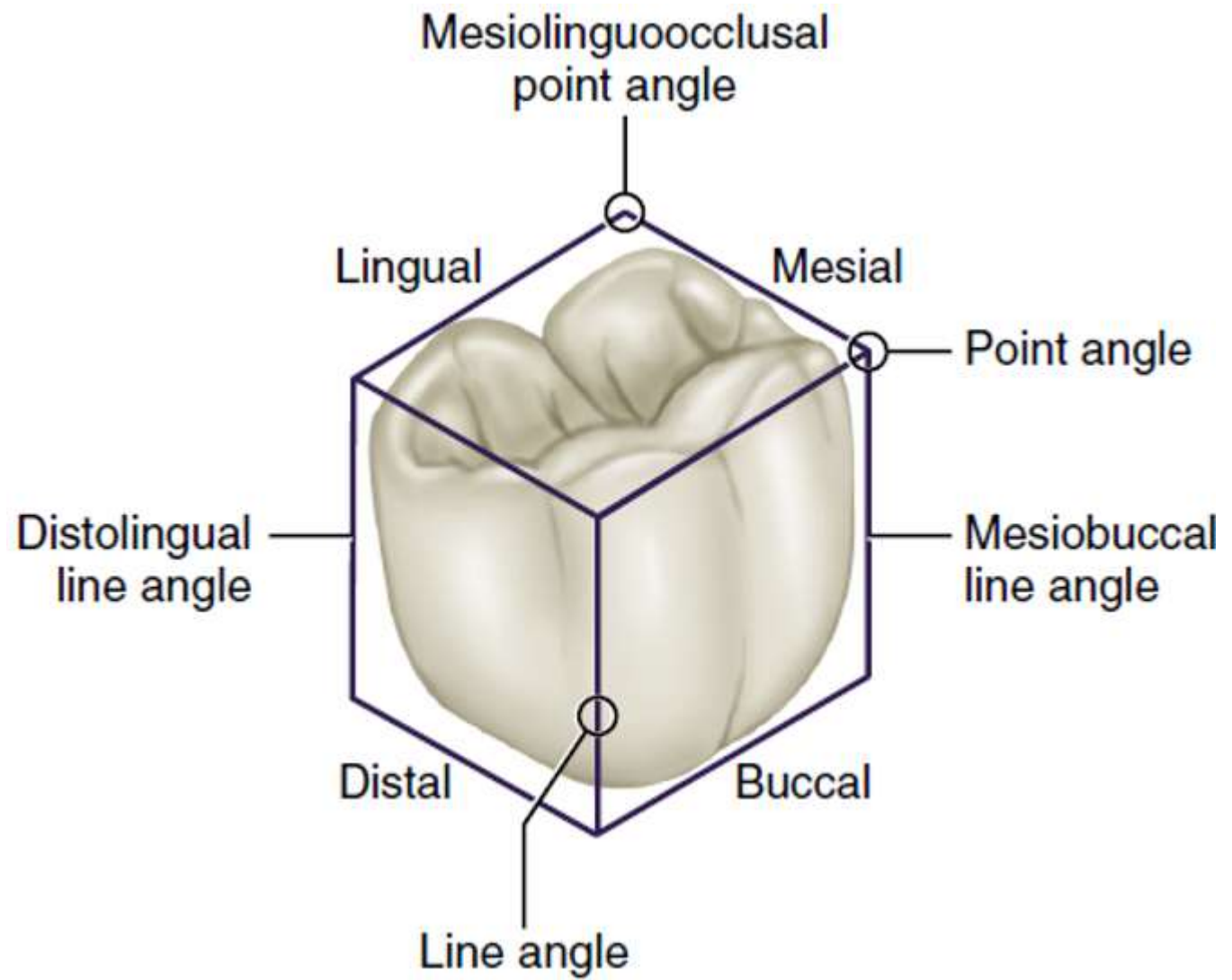
**NOTE:** The term apical relates to the root tip end of the tooth (apex or root)



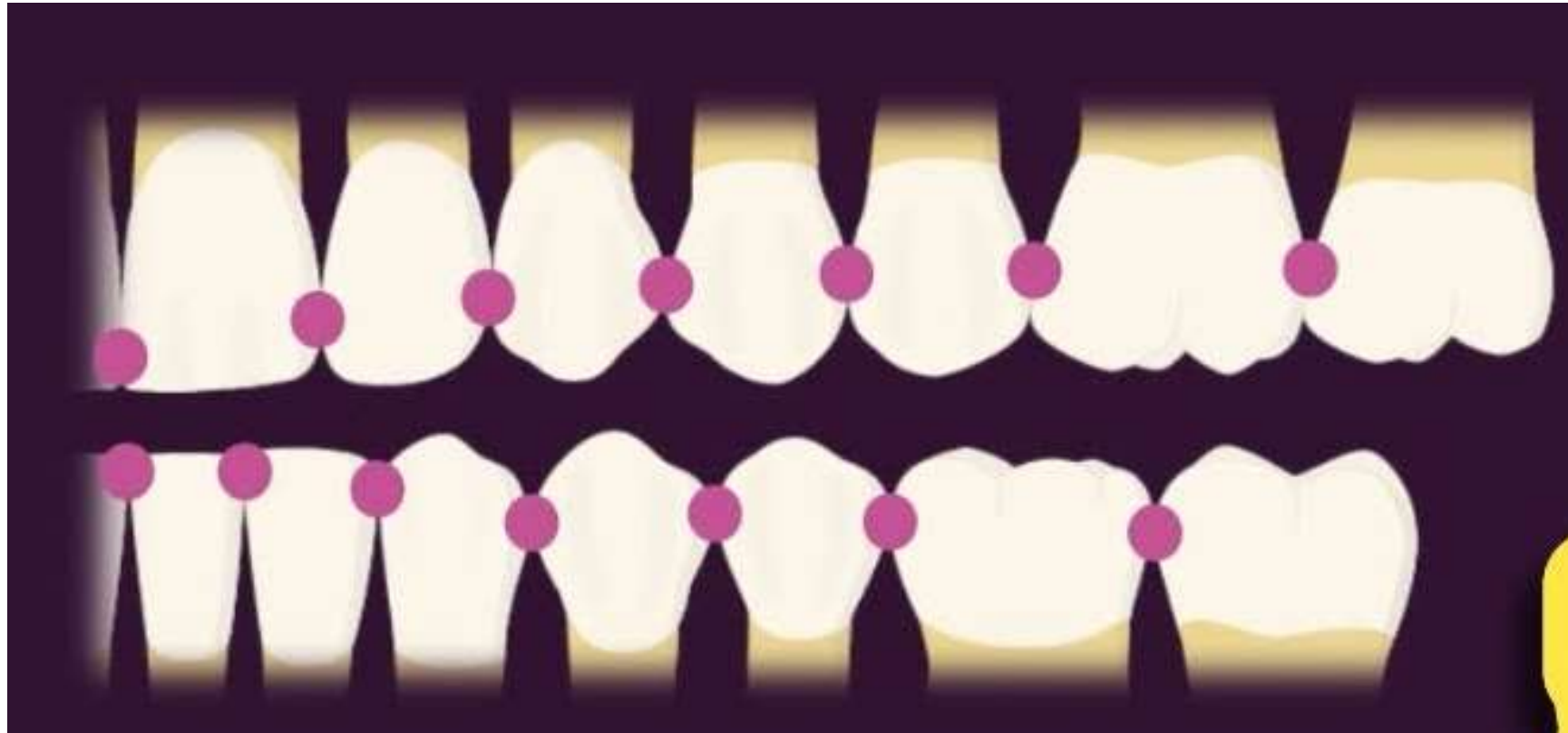


- ❖ When **TWO SURFACES** of a tooth meet, such as distal and incisal, this is called a **LINE ANGLE**.
- ❖ When **THREE SURFACES** meet, such as distal, incisal, and labial, this is called a **POINT ANGLE**.

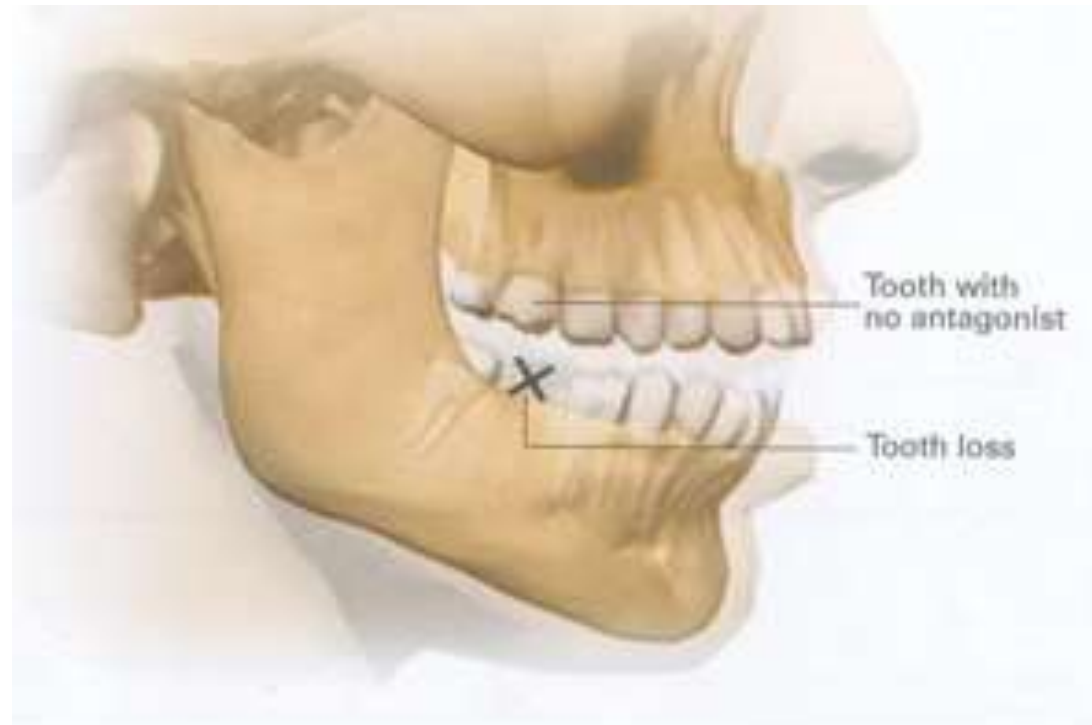




The area of the mouth where two adjacent teeth in the same arch touch each other is called the contact area.



A tooth in one arch that opposes the tooth in the opposite arch is called an **ANTAGONIST/ (OPPOSING TEETH)**



The V-shaped space located near the contact area between adjacent teeth is called the **EMBRASURE**. These spaces provide a spill way for food to escape during chewing.

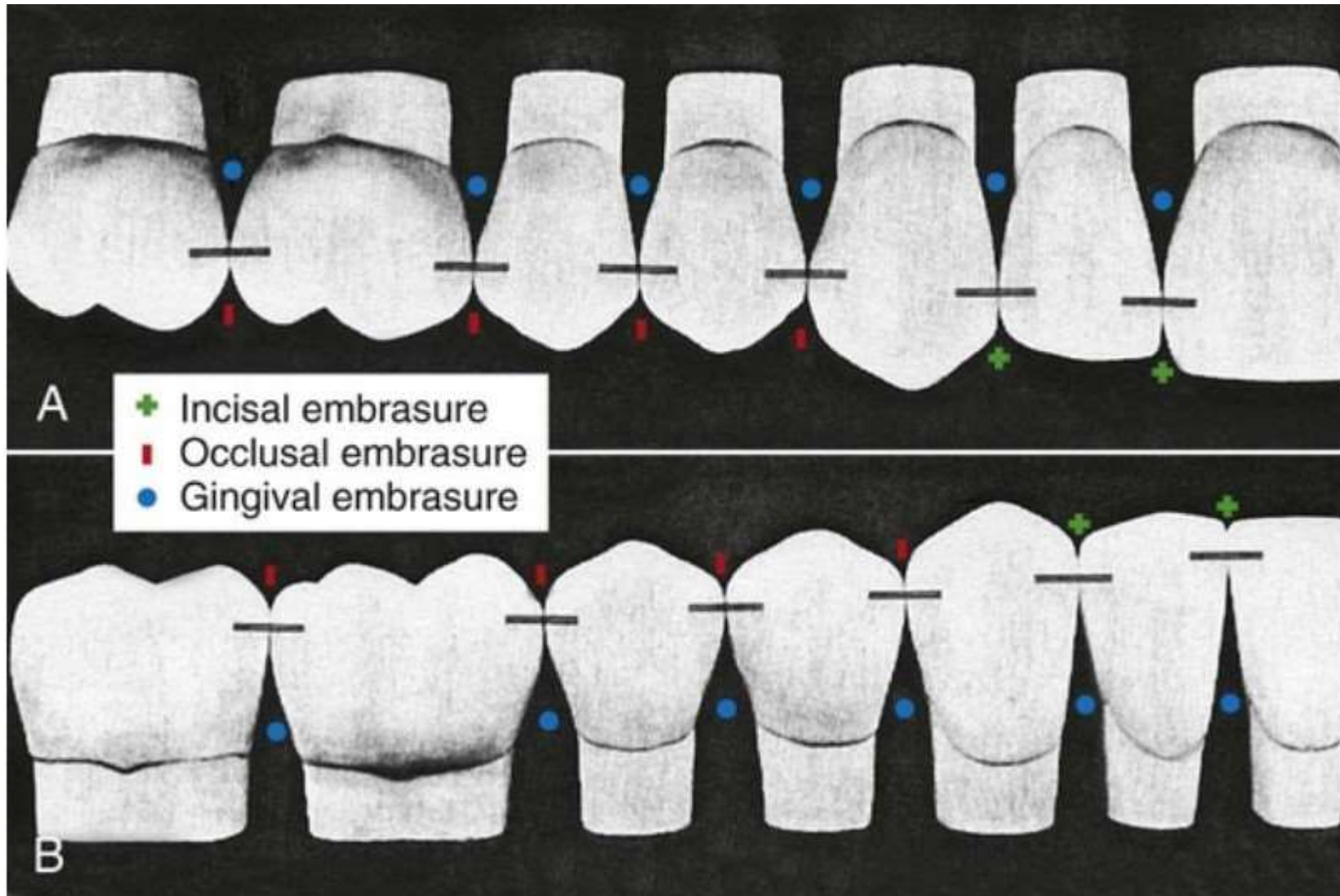


 Embrasures

A V-shaped opening between the curved proximal surfaces of adjacent teeth, gingival to the proximal contact







## Landmarks of the Teeth

Teeth have some common landmarks or anatomical markings. These landmarks are not present on all teeth and thus can help us identify each tooth.

**CUSP**

A pointed part on the biting surface of specific teeth (from the word *cusps* meaning “a point”).



RM<sub>1</sub>



RP<sub>4</sub>



RP<sub>3</sub>



RI<sub>2</sub>

**FISSURE**

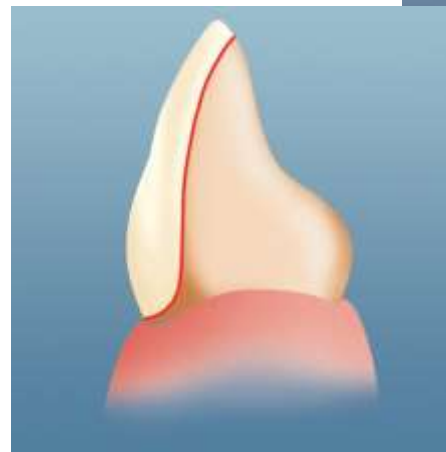
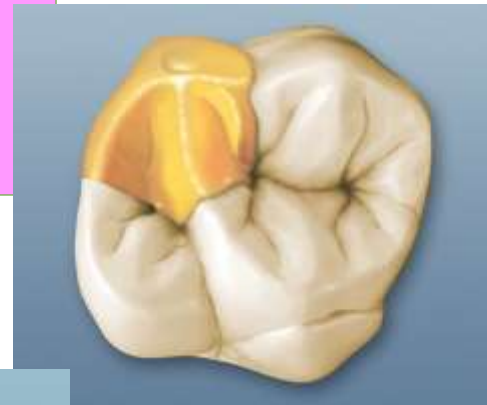
Deep pits and grooves on the surfaces of the teeth.

**Restorative dentistry** involves repairing or replacing teeth. The main goal of restorative dentistry is to improve oral health and chewing function. General dentists — sometimes called family dentists — perform restorative dentistry.



#### PROCEDURES

- ❖ Filling
- ❖ Inlays
- ❖ Onlays
- ❖ Veneers
- ❖ Teeth Whitening



# Dental restoration serves many purposes



Removing carious lesions



Improving and restoring teeth to normal function



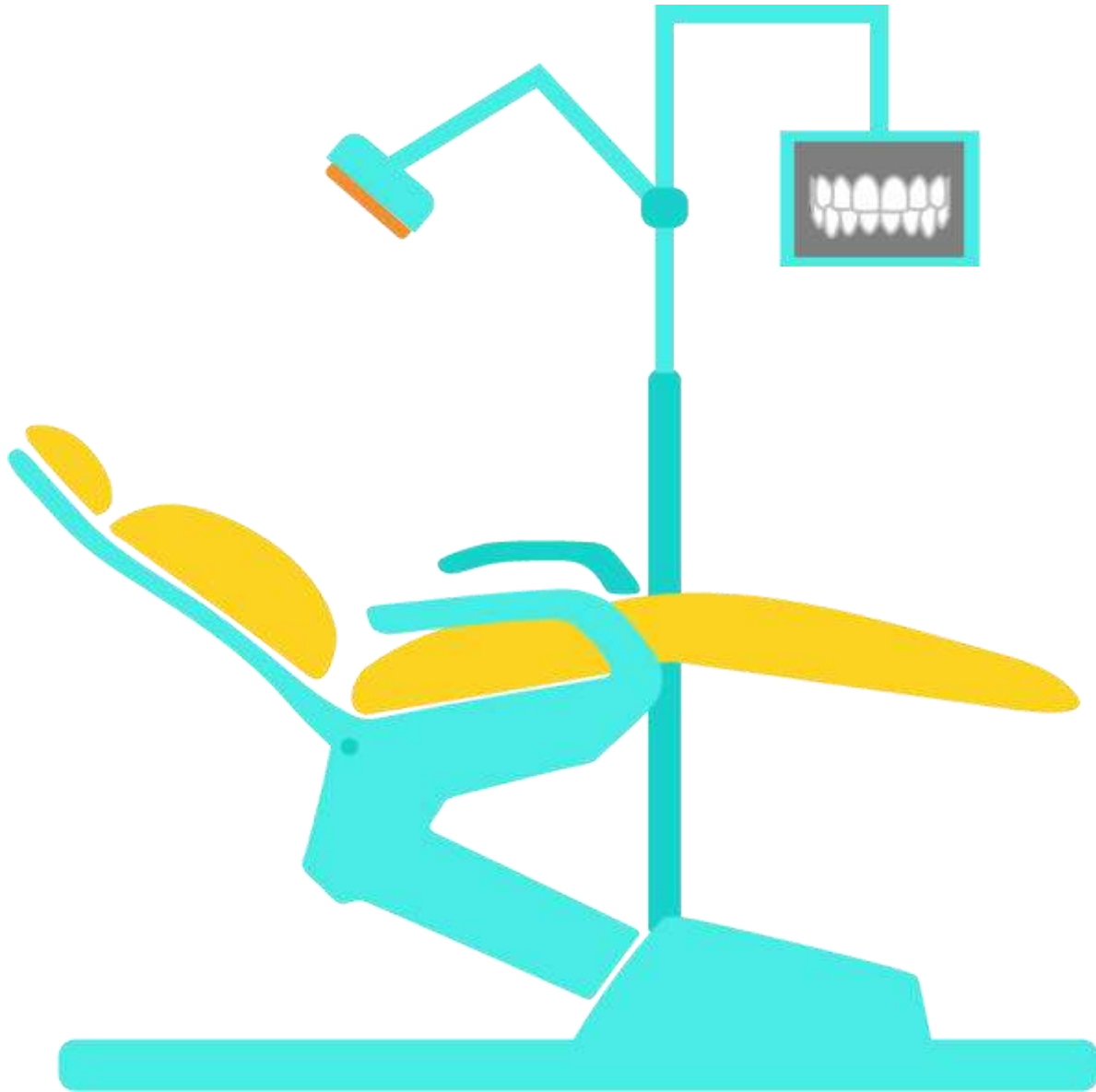
Alleviating dental pain



Improving the aesthetic appearance of the teeth and smile



Decreasing the risk of dental problems in the future.



Endodontics is the branch of dentistry associated with restorative dentistry concerned with dental pulp and surrounding the roots of a tooth.



Endodontists are dental specialists who complete two or three years of additional training in the study and treatment of the dental pulp after dental school.







**The type of restorative procedure and the dental materials used usually depend upon:**

- ✓ The condition of the teeth
- ✓ Patient preference

Remember: (a decision should be made in conjunction with the dental provider).

# What Are Dental Caries?



Dental caries, commonly known as tooth decay or cavities



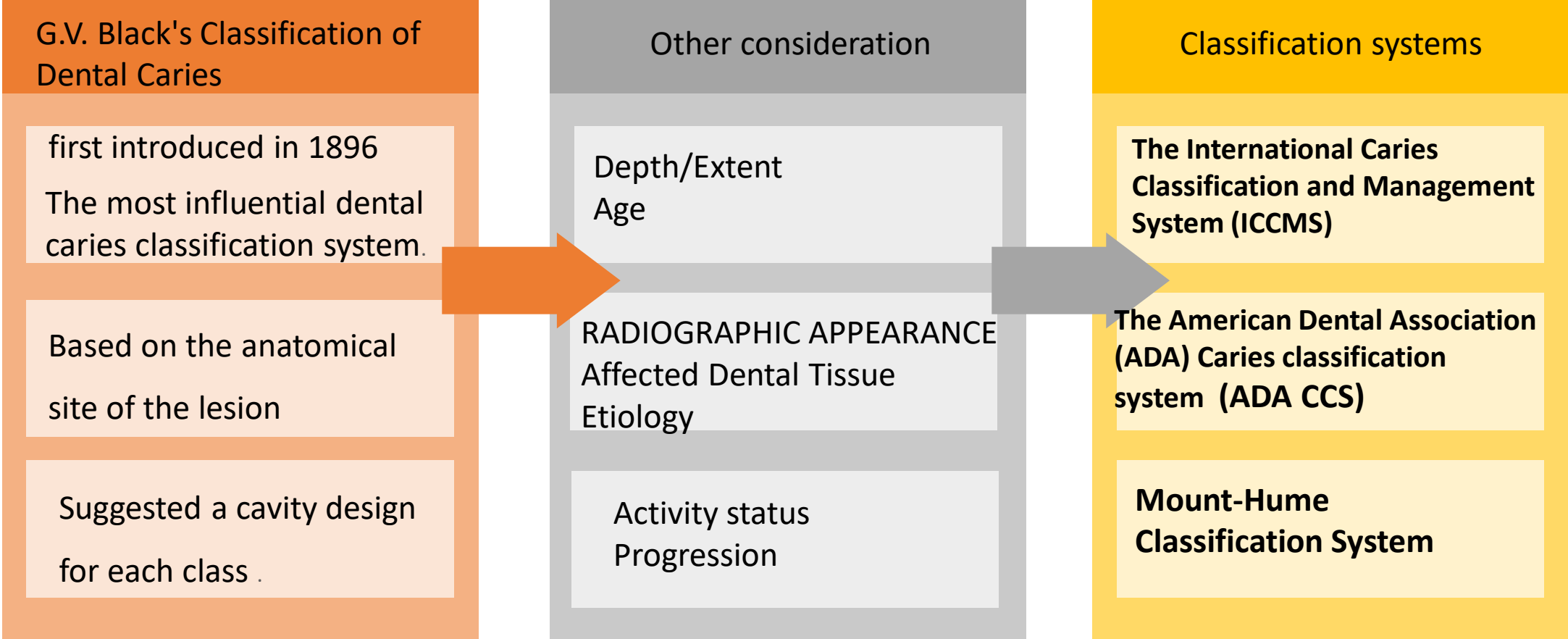
Definition: is a multifactorial dental disease that results in the demineralization and destruction of the hard tissues of the teeth (enamel, dentin, and cementum).









This condition is caused by:

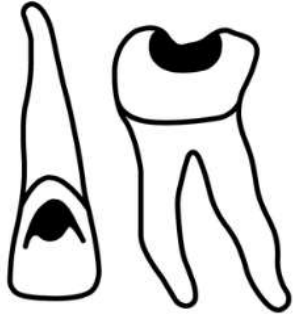
- the activity of bacteria that metabolize carbohydrates from food and produce acid as a byproduct.
- The acid dissolves the minerals in the tooth enamel, leading to the formation of cavities.

# Classification of Dental Caries

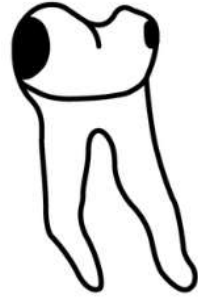


Cariologists: a group of experts who study dental caries

Class	Description	Classes	Illustration
Class I	Caries affecting pits and fissures on occlusal third of molars and premolars, occlusal two-thirds of molars and premolars, and lingual part of anterior teeth.	Class I	
Class II	Caries affecting proximal surfaces of molars and premolars.	Class II	
Class III	Caries affecting proximal surfaces of central incisors, lateral incisors, and canines without involving the incisal angles.	Class III	
Class IV	Caries affecting proximal including incisal angles of anterior teeth.	Class IV	
Class V	Caries affecting gingival one-third of facial or lingual surfaces of anterior or posterior teeth.	Class V	
Class VI	Caries affecting cusp tips of molars, premolars, and canines.	Class VI	



**Class I**



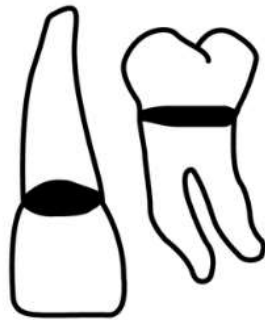
**Class II**



**Class III**



**Class IV**



**Class V**



**Class VI**





أول دليل تاريخي لامتحان الإنسان طب الأسنان يعود لأكثر من 7000 عام قبل الميلاد.

بعض الوصفات الطبية للأسنان مسجلة منذ أكثر من 5000 عام قبل الميلاد.

اشتهرت الحضارة اليونانية القديمة بالكتابات الغنية حول طب الأسنان.

أول كلية طب أسنان في العالم افتتحت عام 1840.

تأسست الجمعية الأميركية لطب الأسنان عام 1859.

