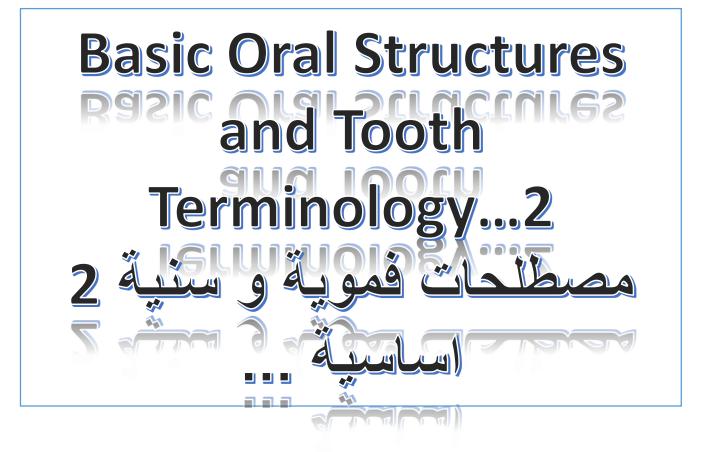


INTRODUCTION TO DENTISTRY

Dr. Amal Aqeel Albtoosh





Tooth layers: revision

- Enamel
- Dentin
- Pulp:

С

R

0

W

Ν

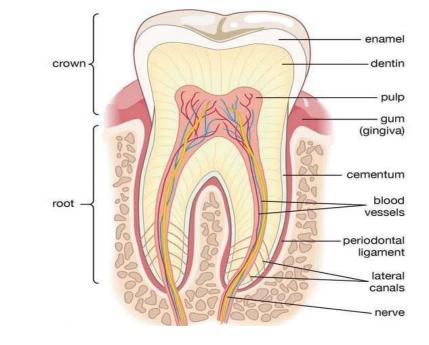
r

0

0

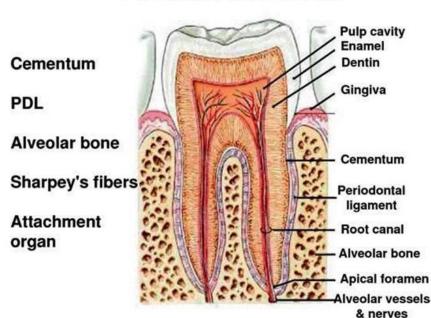
t

- Pulp chamber (or pulp cavity = found in the crown
- Pulp canal = found in the root
- Cementum = tissue covering of tooth root)



PERIODONTIUM



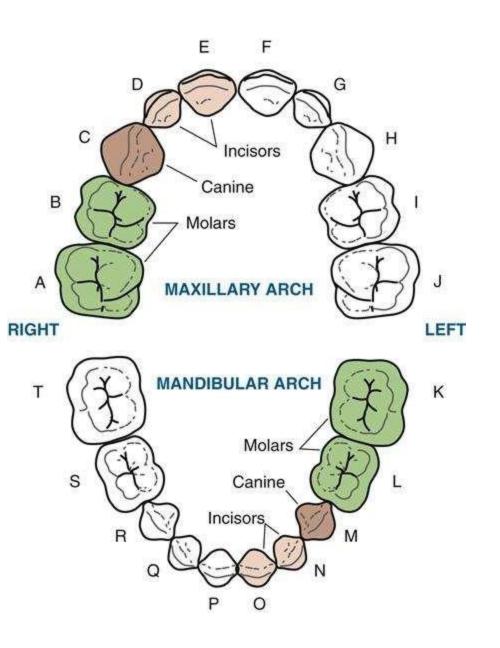


PERIODONTIUM



Primary or Deciduous dentition

NUMBER: 20 deciduous teeth WHEN APPEAR? erupting first usually at 6 months Other names? are commonly called "baby/milk teeth" or primary teeth.



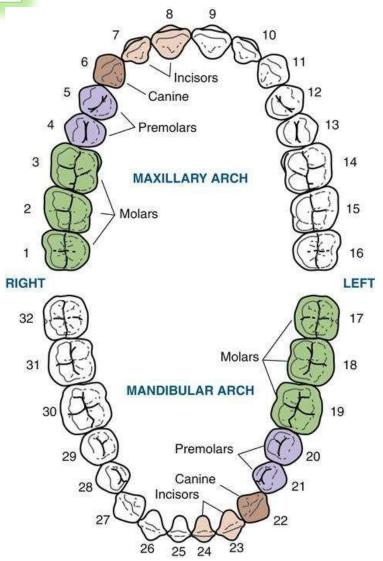
Succedaneous or Permanent teeth

Number: The 32 permanent teeth when do they erupt?

Erupt at 6 years and most of them replace the deciduous teeth

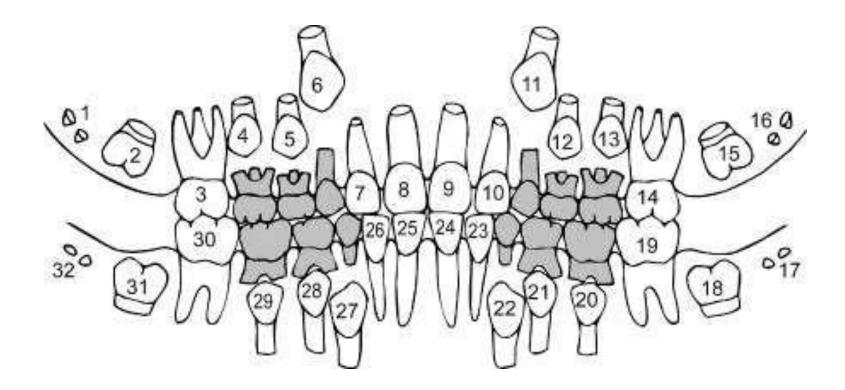
Other names??

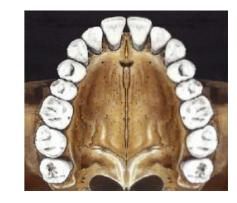
are commonly called secondary teeth.



Transition or Mixed dentition period

Mixed dentition occurs from age 6 to 12, when the dentition contains both deciduous and secondary teeth.

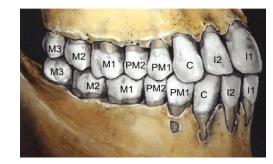




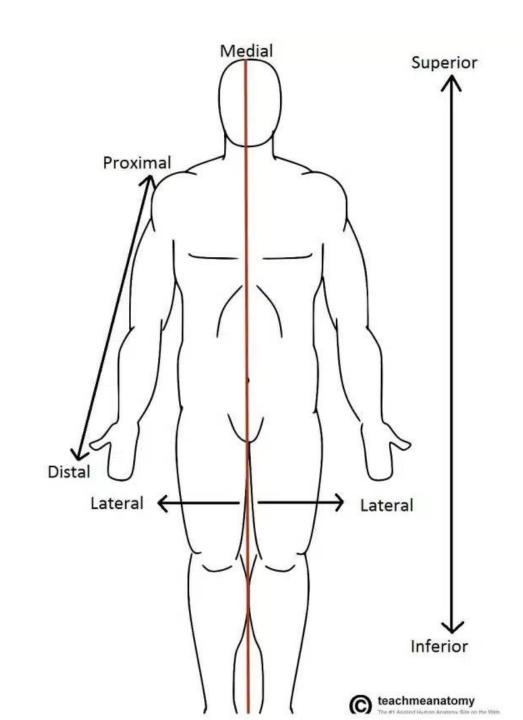
upper (maxillary) arch



lower (mandibular) arch

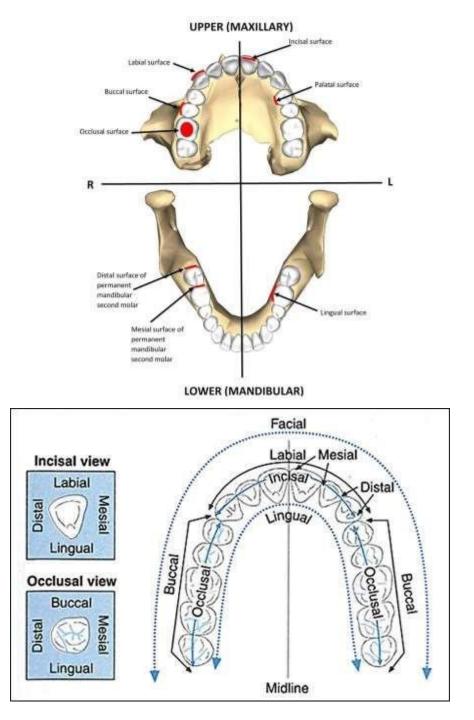


the occlusion (bite)



Tooth surfaces

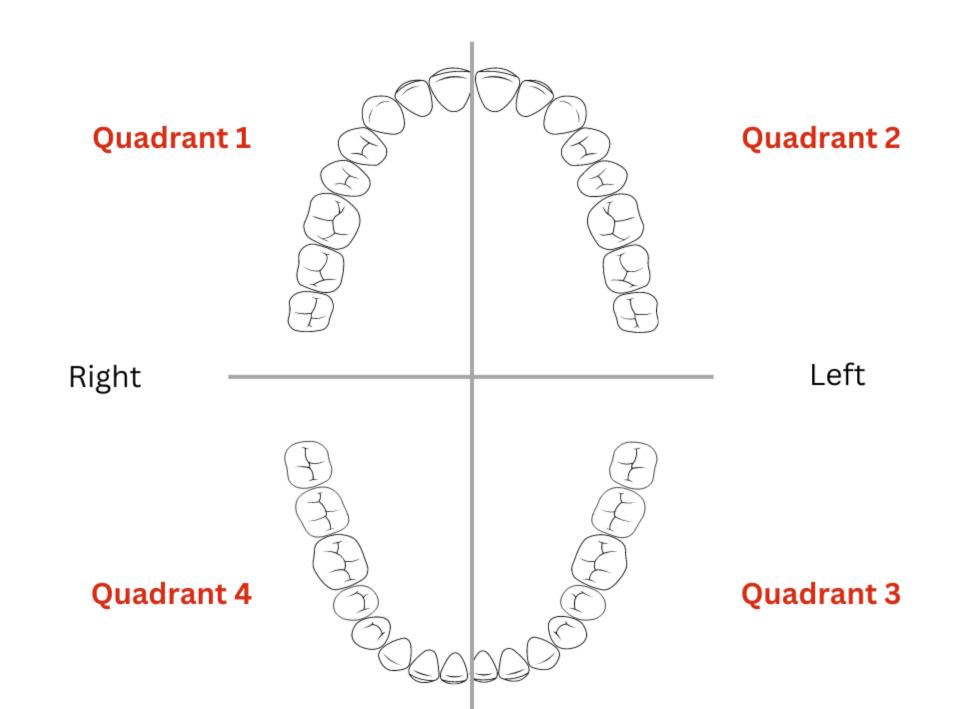
- Buccal : towards the check
- Lingual : toward the tongue
- Labial : towards the lips
- Palatal : towards the palate
- Mesial= towards the midline
- Distal = away from the midline
- Occlusal the direction towards the biting surface of posterior teeth
- Incisal= the direction towards the biting edge of anterior teeth

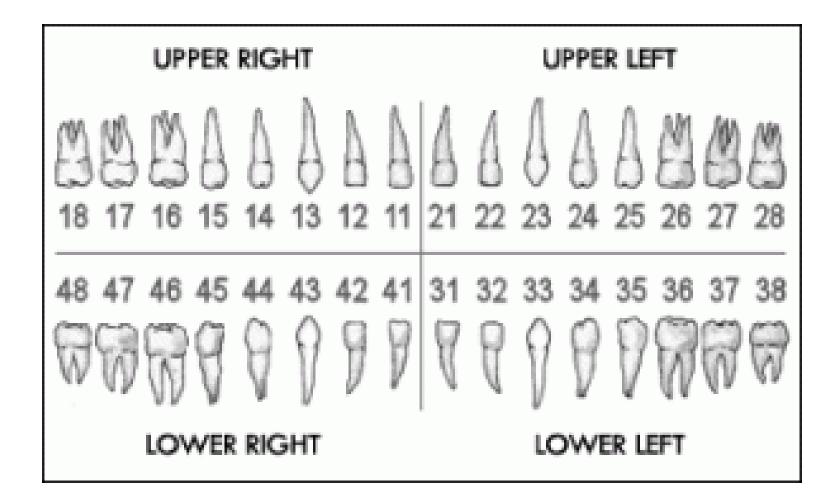




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D-A-Q-T System

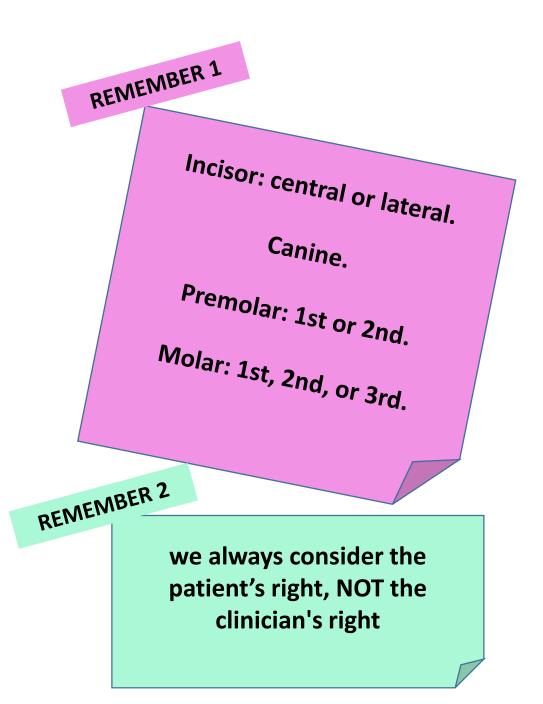
The "D-A-Q-T System" :

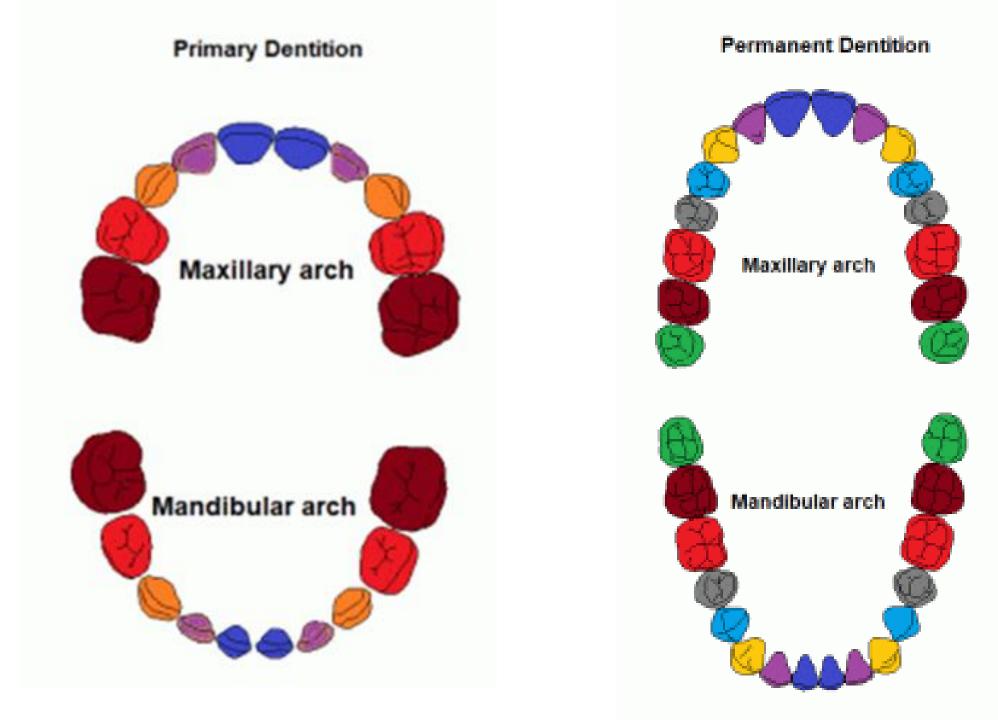
- begins with <u>THE BROADEST</u> concept of teeth -primary or permanent dentition. the DENTITION is named first
- 2. followed by the <u>ARCH</u>.
- 3. Then the **QUADRANT**.
- 4. and lastly the **<u>TOOTH</u>** name.

This breaks down as follows:

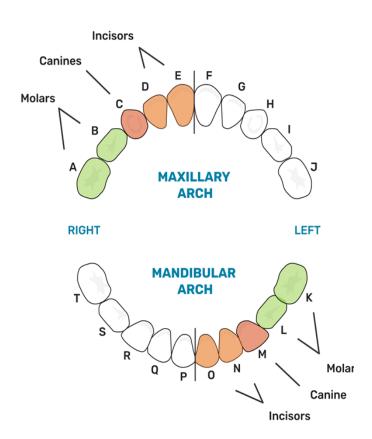
D stands for **Dentition**: primary or permanent.

- A stands for Arch: maxillary or mandibular.
- **Q** stands for **Q**uadrant: right or left.
- **T** stands for the **T**ooth type:



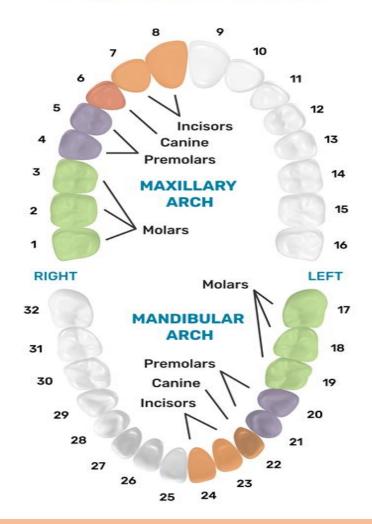


Primary Dentition



Take a moment to study the D-A-Q-T System on in the following diagrams of primary and permanent dentition. Practice by moving through the sequence of dentition, arch, quadrant, and tooth type.

Permanent Dentition



e.g., permanent mandibular right lateral incisor

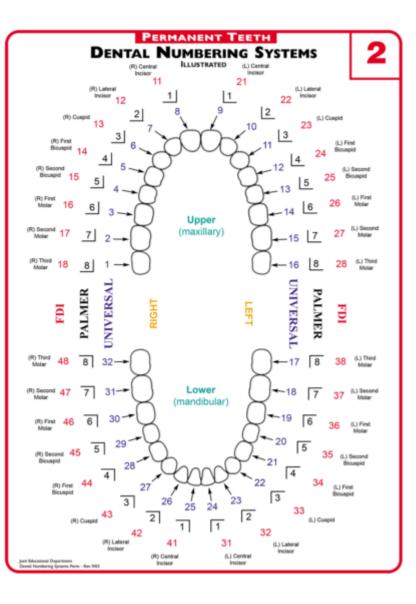
e.g., primary maxillary left first molar.

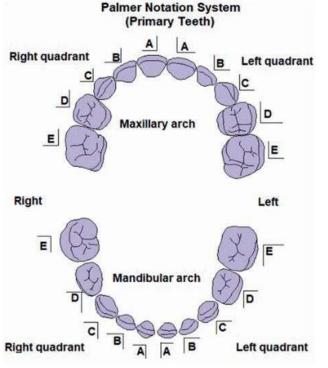
OTHER Tooth Numbering Systems

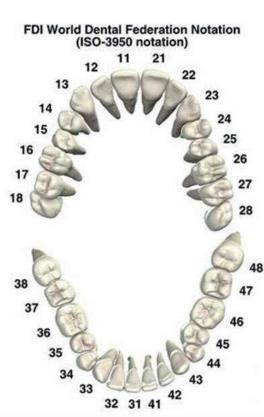
1. Symbolic (Palmer) system notation (L 1-8)

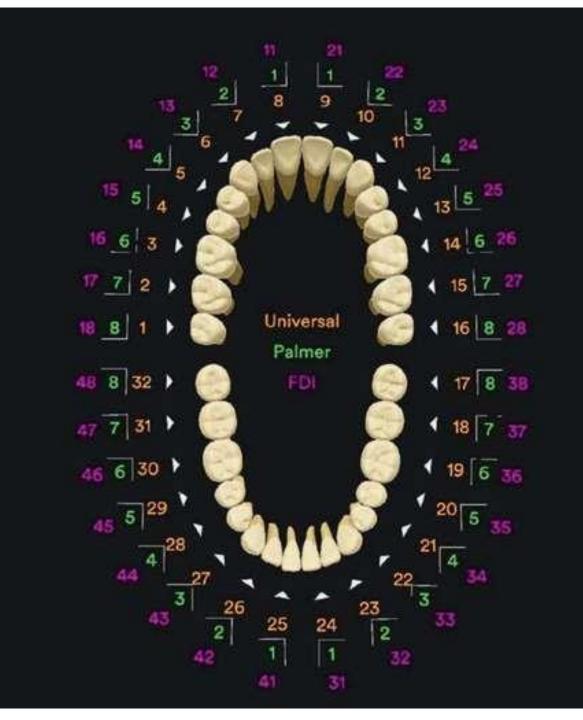
2. Universal numbering system. (# 1-32)

3. FDI system (two-digits)



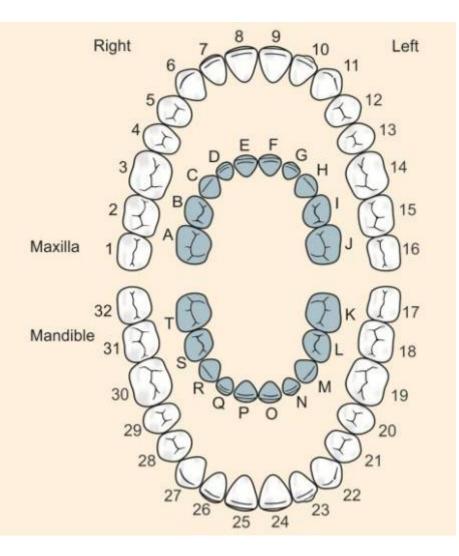






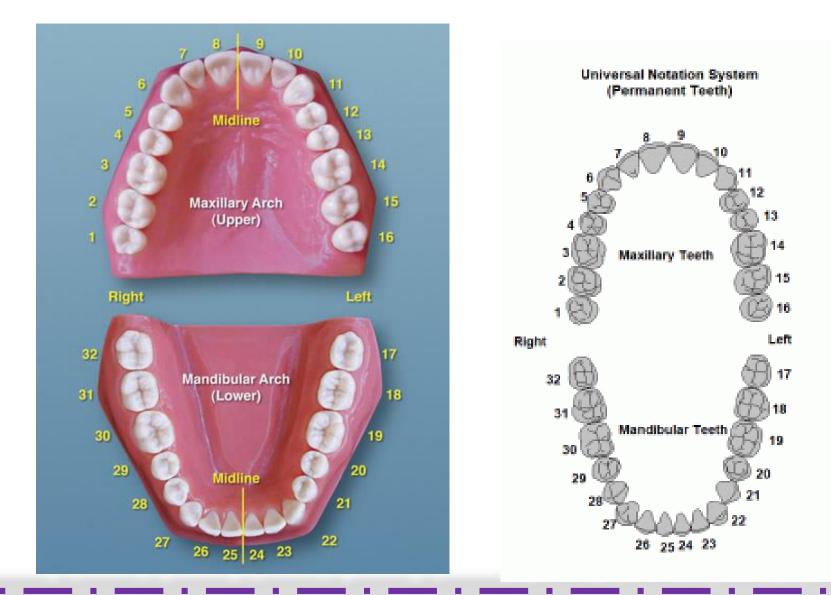
The Universal Tooth Numbering System

- A more convenient method of identifying or classifying teeth.
- The American dental association (ADA) recommends the universal numbering system. This tooth notation system is also known as the American tooth numbering system.
- The Universal Numbering System assigns a number from 1 to 32 to adult teeth, beginning with the upper-right third molar.



To move through the Universal Tooth Numbering System,

- count from the upperright third molar toward the midline and two front teeth, then to the left side.
- Once you reach #16 (upper-left third molar), drop down and begin with #17 (lower-left third molar).
- Then, counting across the lower teeth, you end at #32 (lowerright third molar).

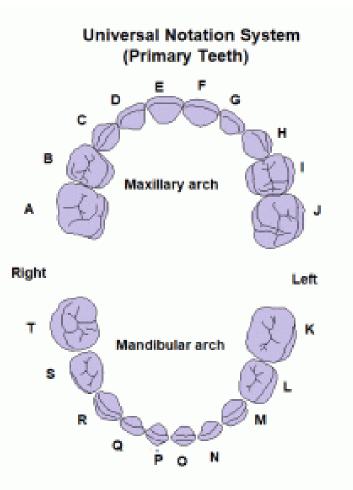


Dentists still assign numbers to any missing teeth. By doing this, they can create an accurate tooth chart to keep in a patient's records.

The Universal system/ Deciduous dentition

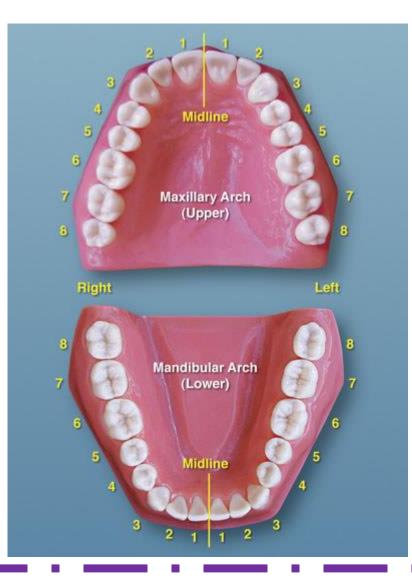
- for tooth notation <u>UPPERCASE ALPHABETS</u> is used for <u>DECIDUOUS TEETH</u>.
- START: The tooth notation in the universal system in deciduous teeth <u>begins</u> from the right maxillary second
- molar with alphabet A. In the mandibular deciduous teeth, the universal notation begins with alphabet K for the
- mandibular left second molar

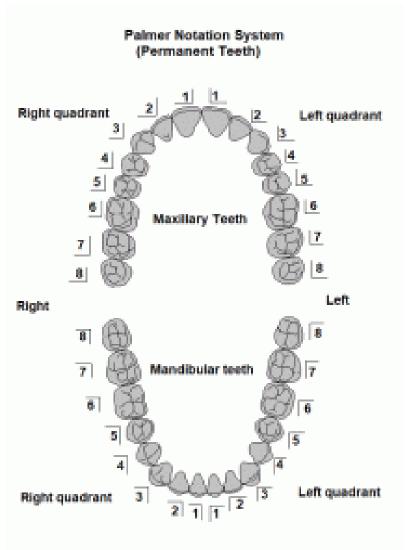
END: the last alphabet in the maxillary arch is J for the left maxillary second molar. In the mandibular deciduous teeth, ends with letter T for the right mandibular second deciduous molar.



Palmer numbering system

- A tooth numbering system where the centrals of each quadrant are number 1
- and the teeth are consecutively numbered to the third molars, number 8.
- Teeth are charted using the quadrant name and tooth number, such as "upper right 1"

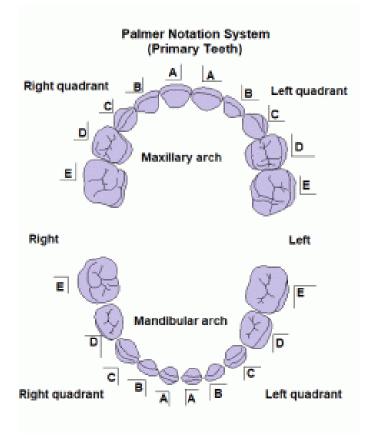




Variations: The system is widely known as the Palmer notation system and less commonly as the Palmer Zsigmondy notation system. Military numbering system, numeric notation

Palmer tooth numbering system Deciduous dentition

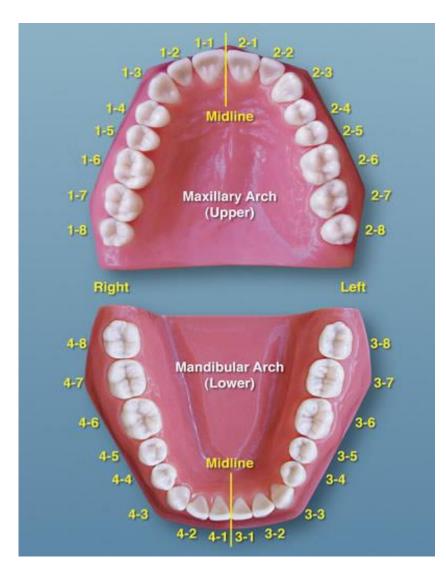
- In this notation system the maxillary and the mandibular arches are divided into the quadrants the central incisors are represented by A through E for the second deciduous molar.
- In this notation system, the important thing is the symbol that is used together with the upper case alphabet, and that symbol indicates the arch (Maxillary or mandibular) and the quadrant (right or left).



- The Fédération Dentaire Internationale (FDI) proposed a two-digit tooth numbering system known as an FDI tooth numbering system.
- This tooth numbering system is adopted by the major organizations around the world such as the World Health Organization (WHO) and the International association for dental research (IADR).

FDI/ ISO numbering system

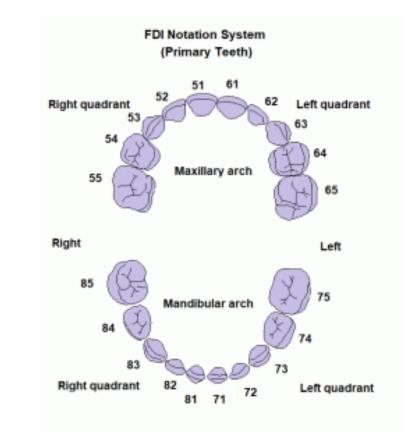
- 1. A tooth numbering system where the centrals of each quadrant are number 1 and the third molars are number 8.
- 2. The quadrants are numbered from 1 through 4: upper right, upper left, lower left and lower right.
- 3. Teeth are charted with the quadrant number followed by the tooth number.
- 4. In this system, the upper right central would be tooth 1-1, or sometimes abbreviated to 11, while the lower left third molar would be 3-8 or 38.



Variations: FDI numbering system, FDI notation, International numbering system

FDI tooth numbering system Deciduous dentition

- The <u>first digit</u> in this numbering system indicates <u>quadrant</u>
- > and the second digit indicates the tooth number.
- for example, the deciduous maxillary right central incisor is designated as 51. The first number that is 5 indicates the maxillary right upper quadrant and 1 indicates central incisor.
- In this numbering system, the correct pronunciation is five-one, not fifty-one.





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