

LES NO. : 3
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## 



## Tooth classification \& numbering systems

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## Tooth classification

 \& numbering systems

## The Jaws <br> \&

## Dental Arches



## The Jaws and Dental Archest

- A. The maxilla is two bones forming the upper jaw: they are rigidly attached to the skull (upper avens)
- B. The mandible is
a horse-shoe shaped bone which articulates with the skull by way of the temporo-mandibular
 joint the TMJ. = bower Jaw = bower arch = and we can say in's tower Maxilla

$$
\begin{aligned}
& \text { Right and } \\
& \text { hift for patient }
\end{aligned}
$$

## Maxillary right

 and left.
## Mandibular right

 and left.4 Quadrants

we have 2 Line in the oral cavity:-
1-occlusal line which divide the oral cavity 1 o upper and lower.
2-Mid Line
which divide the aral cavity to Left and right.
Left and right for patient


## Types of Teeth



## Anterior Teeth

for
cutting \& tearing $b$ upper
$b$ Lower ${ }^{\text {food }}$

## Posterior Teeth

 Tearing \& grindingdo upper
lo lower

Anterior Teeth - Upper


## Anterior Teeth - Lower



رِ
Premolars:
(in permanent only)


Second premolar

## Upper

Molars: bupper

First \& second
Wisdom tooth $=$
Third permanent molar

In 1 Quadrant:- \$ In permanent
3 lnterior reeth
2 premolar
3 mothar Gposterior tecth
In upper or hower (each arch)
6 Anterior teeth
21 premolar
6 motar \}posterior feeth
In reeth
12 Anberior reeth
$\left.\begin{array}{l}8 \text { premohar } \\ 12 \text { mohar }\end{array}\right\}$ posterior teeth

# Primary \& Permanent Dentition 



## Types of Dentitions: I-Primary Dentition

Deciduous ,baby, milk teeth:
a.
b. primary teeth.
c. $\frac{\text { in each arch }}{5 \text { in each quadrant }}$
b. primary teeth.
c. $\frac{\text { in each arch }}{5 \text { in each quadrant }}$
b. primary teeth.
c. $\frac{\text { in each arch }}{5 \text { in each quadrant }}$

In function:
2 years $\Rightarrow 12$ years


$$
\begin{aligned}
& y y d d \\
& y y b!1 \\
& x * 11
\end{aligned}
$$



## ge <br> 6 years <br> eruption of first permanent molar



12 years Shedding of last primary molar

## II-Permanent Dentition



## Permanent Teeth



## The Dentitions

## Humans have two dentitions

 1-The primary dentition: (deciduous)20 teeth. 10 maxillary and 10 mandibular. 5 teeth are present in each quadrant. 2 incisors.
1 canine.
and 2 molars.
The dental formula is:




## The Dentitions

## 2-The permanent dentition:

 (secondary, adult or succedaneous) (thete32 teeth, 16 maxillary and 16 mandibular.
8 teeth in each quadrant are Present.
2 incisors.
1 canine.
2 premolars. and 3 molars. The dental formula is :


The permanent molars are not preceeded with deciduous teeth so they may be termed as non-


## لغز معقد جدا

 صحح هذه المعادلة بتحريك عود ثقاب واحد فقط؟




## Universal System <br> for Primary Teeth



## 2-Palmer Notation System 26) 1 for Permanent Teeth <br> 


qualrants


$$
1-8
$$

It represents the four quadrants of the dentition as if you are facing the patient.

In upper right
In lower right

In upper left
In lower left

Horizontal and vertical lines = symbol for the quadrant
The permanent teeth are numbered from 1-8 on each side from the midline. central incisor
Upper right
Upper left
$\begin{array}{lllllllllllllllll}8 & 7 & 6 & 5 & 4 & 3 & 2 & 1 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8\end{array}$


## Palmer Notation System

 for Primary Teeth

## A-E <br> $\overline{A-E}$

# The deciduous teeth are lettered from $A-E$ on each side from the midline 

## Upper right <br> Upper left <br> $\begin{array}{llllllllll}\text { E } & \mathrm{D} & \mathrm{C} & \mathbf{B} & \mathbf{A} & \mathbf{A} & \mathrm{B} & \mathbf{C} & \mathrm{D} & \mathbf{E}\end{array}$ <br>  <br> Lower right <br> Lower left

## Palmer Notation System



```
primavy < <g? l
```



## 2-The International Numbering System

 "FDI" Federation Dentaire International (the two digit system)The teeth are designated by using two-digits:
a. The first digit of the code is located at the left side of the number and indicates the quadrant:

## In permanent dentition

 spar rightUR. 12 U.L.
L.R. 43 L. L.

Lower right

Lower Left

In deciduous dentition


LT. tower right

7 L.L.® bower Lots


## Second Digit = Tooth number in the quadrant

b- The second digit is located at the right side of the number and indicates the number of the tooth in the quadrant.

The two digits should be pronounced separately.

## Permanent teeth

| 18 | 17 | 16 | 15 | 14 | 13 | 12 | 1 | 1 | 22 | 23 | 24 | 25 | 26 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

2-International System (Two Digit System) "FDI"
Federation Dentaire International

First Digit = quadrant


## For Primary Teeth



## For Primary Teeth

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</tr>
</tbody>
</table>
<table-markdown style="display: none">| First Digit $=$ quadrant and $\operatorname{den}$ inion 8 |
| :--- |</table-markdown></div> 

## Primary Teeth

$$
\begin{array}{lllll|llll}
55 & 54 & 53 & 52 & 1 & 6 & 62 & 63 & 64 \\
65
\end{array}
$$

| 85 | 84 | 83 | 82 | 81 | 71 | 72 | 73 | 74 | 75 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |



## Macro anatomy of Teeth



## Single-rooted Multi-rooted



Single rooted no Anterior tooth tall premolar except upper first molar in right and left
two rooted no first premolar in upper and all molar in Lower

Multi rooted moll molar in upper

Lower

upper


## THANK YOU

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