

It is the morphology of the various teeth in the human dentitions and knowledage of how the shape ,form ,structure,color,function of the teeth relate to each other in the same dental arch and to the teeth in the opposing arch.





Dentition : is a term that describes all of the upper and lower teeth collectively

Clinically, there are three dentitions.



The mixed dentition



primary dentition



Teeth in each quadrant.

- (1) Central incisor
- (2) Lateral incisor
- (3) Cuspid
- (4) 1st molar
- (5) 2nd molar

primary dentition



- The primary dentition consists of 20 teeth in all: ten upper and ten lower teeth.
- Primary teeth may also be called 'baby' teeth, deciduous, 'milk', or lacteal teeth.
- Primary teeth begin to appear at about age six months and are entirely replaced by about ages 12 - 13.





Teeth in primary dentition are smalle and fewer in number than permanent dentition to conform to the smaller jaw size





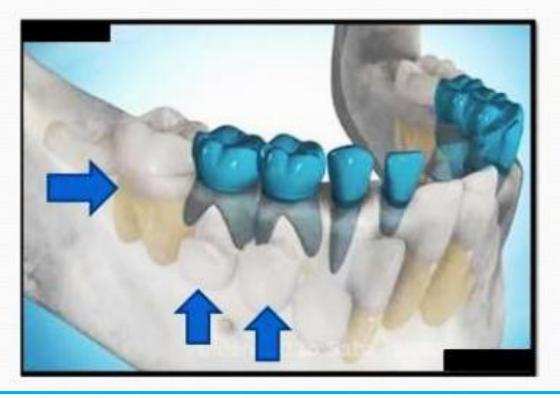


The permanent dentition is composed of 32 teeth in all, 16 upper and 16 lower.

Half of a dental arch (primary or permanent) is called a quadrant. The permanent teeth that replace deciduous teeth are call succedaneous teeth. (Succedaneous means literally, to replace). In dental science, permanent teeth that replace deciduous teeth are called successional teeth. Permanent molars, which replace nothing are called accessional teeth.)



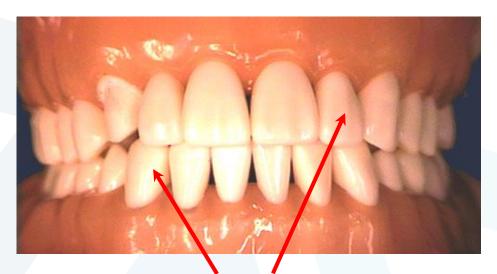
- Molars are not considered as succedaneous teeth







Primary

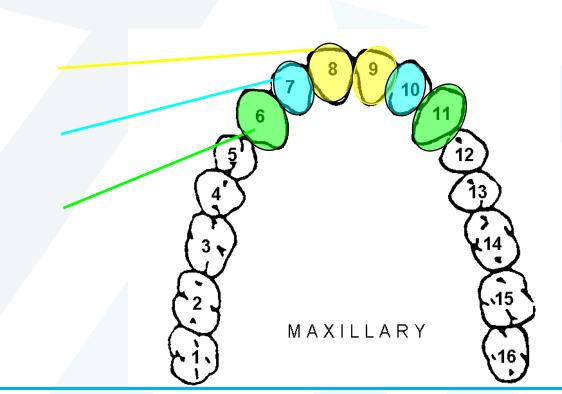


Permanent



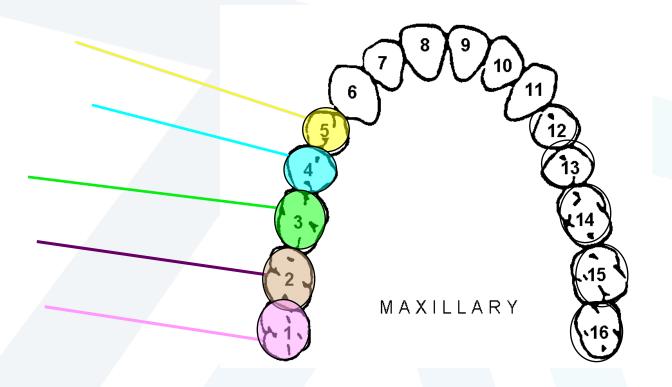
Teeth in each quadrant

- (1) Central incisor.
- (2) Lateral incisor.
- (3) Cuspid (canine).





- (4) 1st bicuspid
- (5) 2nd bicuspid
- (6) 1st molar
- (7) 2nd molar
- (8) 3rd molar(wisdom tooth)







- The mixed dentition is composed of both primary and permanent teeth.
- It's begin with the eruption of the first of the permanent teeth at about age six, and ends with the loss of the last of the deciduous teeth at about the age of 12-13 years.

The mixed dentition





It is often the difficult time for the young children because of habits,missing teeth,teeth of different colors and hues,growding of the teeth and malposed teeth



Primary Dentition



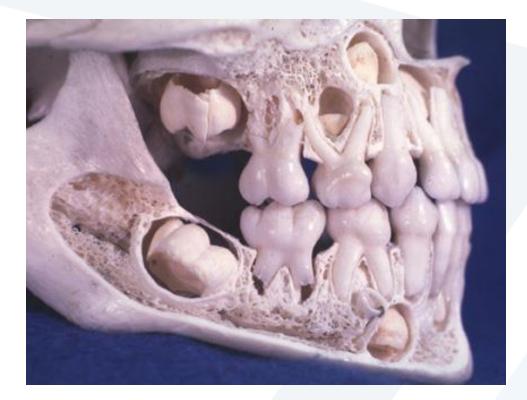


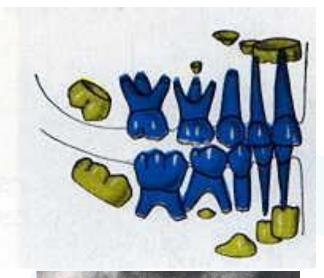
There are 20 teeth in the primary dentition

10 maxillary - 10 mandibular

This dentition is also termed the deciduous dentition



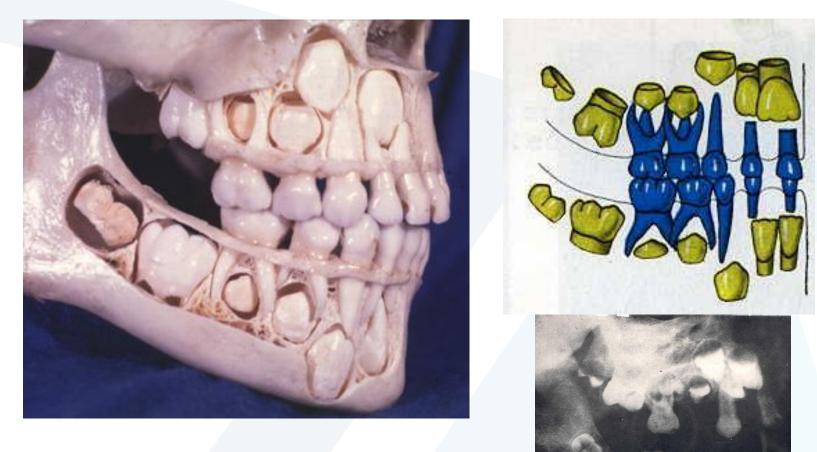






Age 2 Years





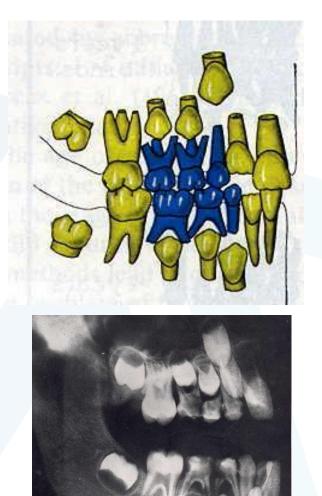
Age 5 Years

The mixed dentition



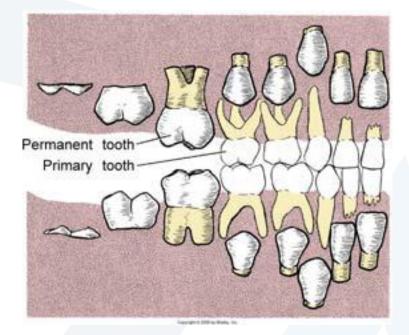


Human jaws at 8 to 9 years of age during the mixed dentition period.





The mixed dentition



The relationship between primary and permanent teeth during the mixed dentition period.

mixed dentition





Dental Formula



Expresses the type and number of teeth per side.



Dental Formula

Primary teeth. It is said as: incisors, two upper and two lower; canines, one upper and one lower; molars two upper and two lower equals ten per side.

Primary Dentition





Dental Formula



Permanent teeth. It is said as: incisors, two upper and two lower; canines, one upper and one lower; premolars, two upper and two lower; and molars, three upper and three lower.

Comment: You won't use it clinically, but you should be aware of it.





Tooth Identification Systems

is the name for the way we identify teeth when we are writing them down

It is necessary for recording data.





Universal/National Numbering System

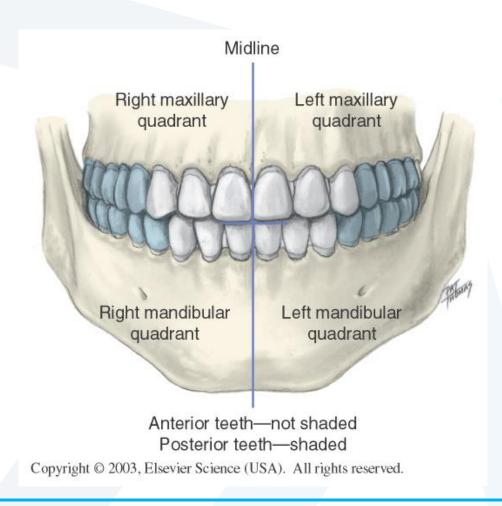
Federal Dental International (FDI)

Palmer Notation System



Classes of Teeth









Universal/National Numbering System

-The Universal numbering system: first suggested by Parreidt 1882.

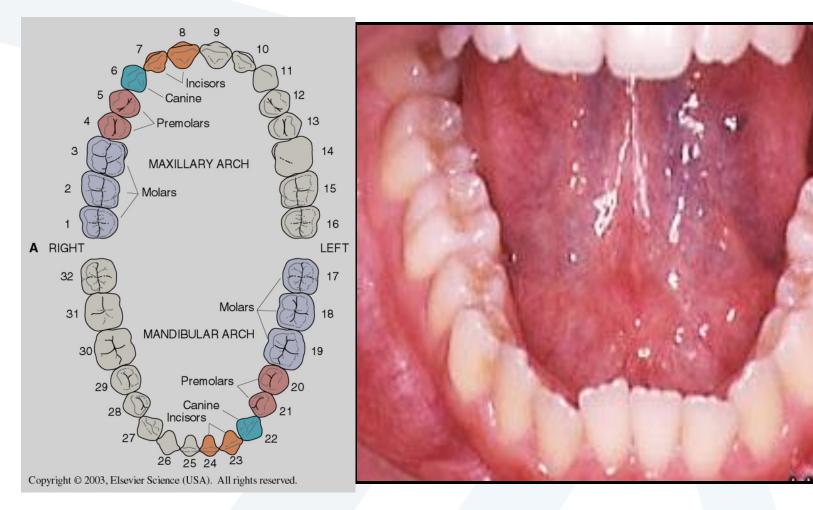
Approved by the American Dental Association in 1968.

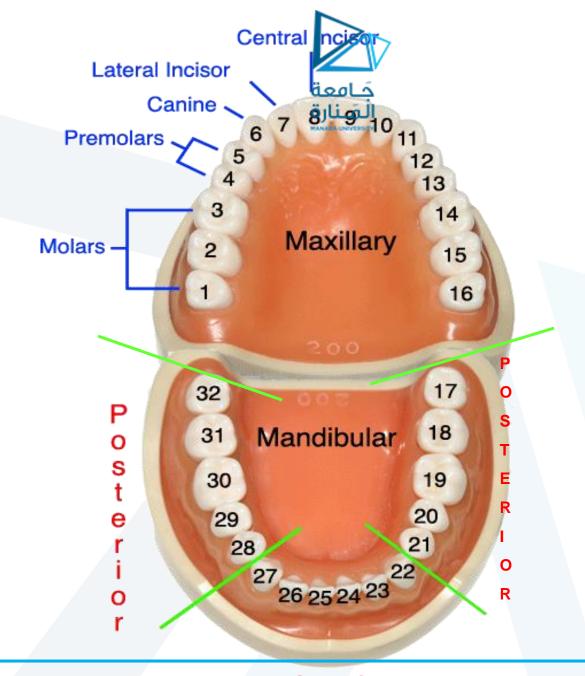
Most commonly used throughout the United States.

The permanent teeth are numbered from 1 to 32.

Numbering begins with the upper right third molar, works around to the upper left third molar, drops to the lower left third molar, and works around to the lower right third molar.

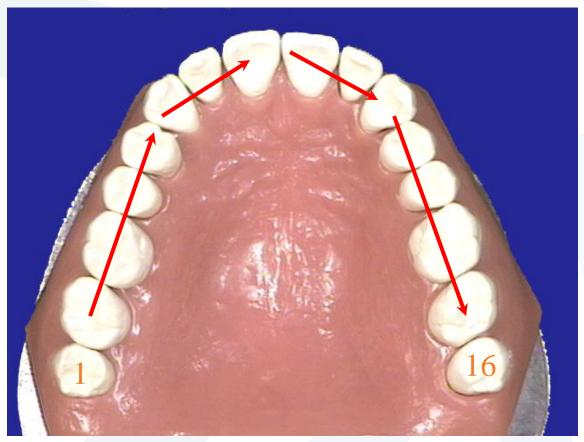






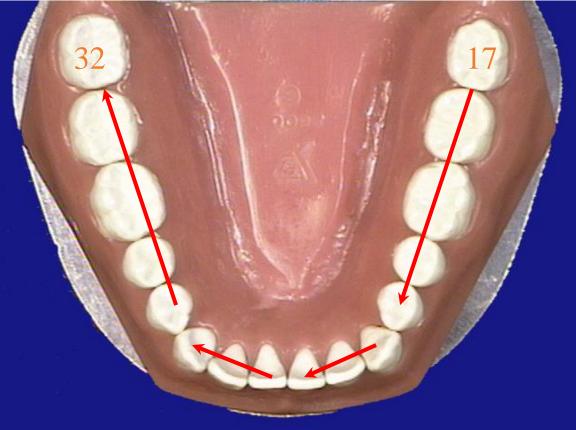
http://terio.edu.sy/





1 for upper right third molar around to 16 upper left third molar

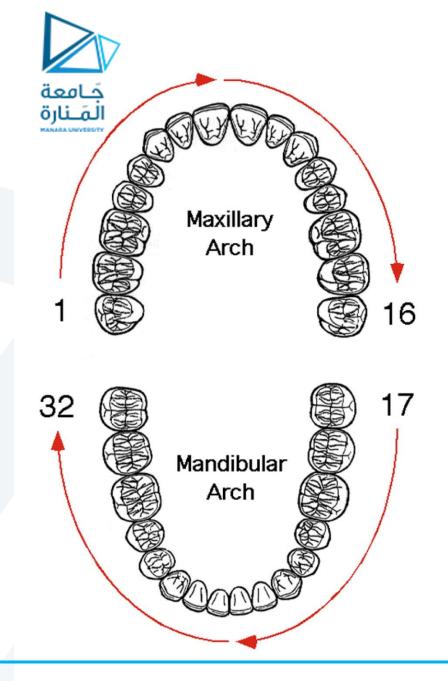


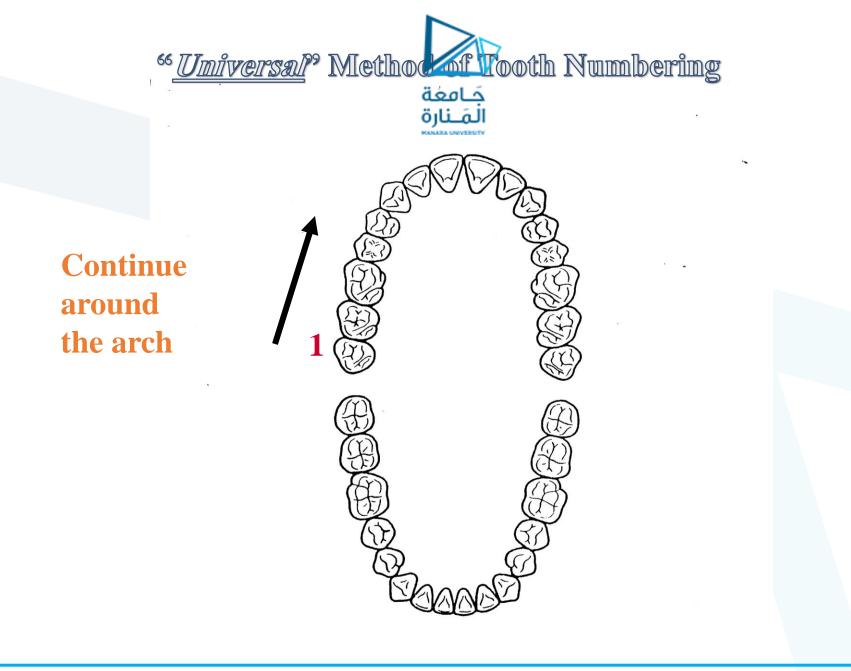


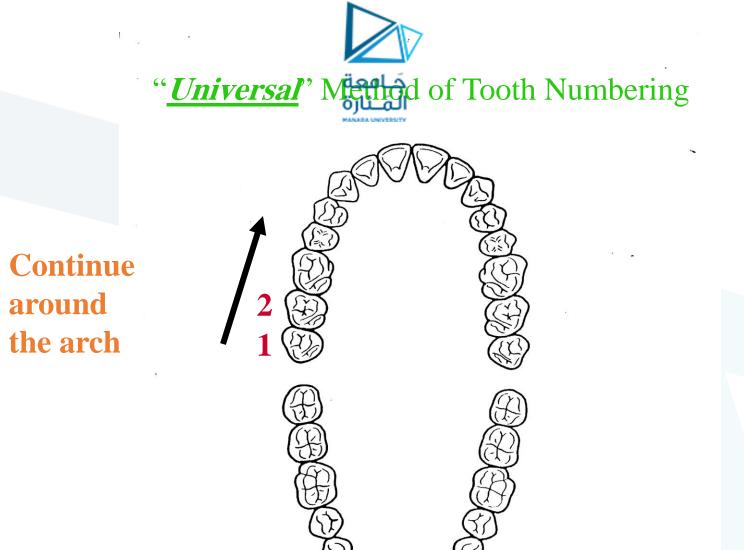
Dropping down same side to 17 lower left third molar and around to 32

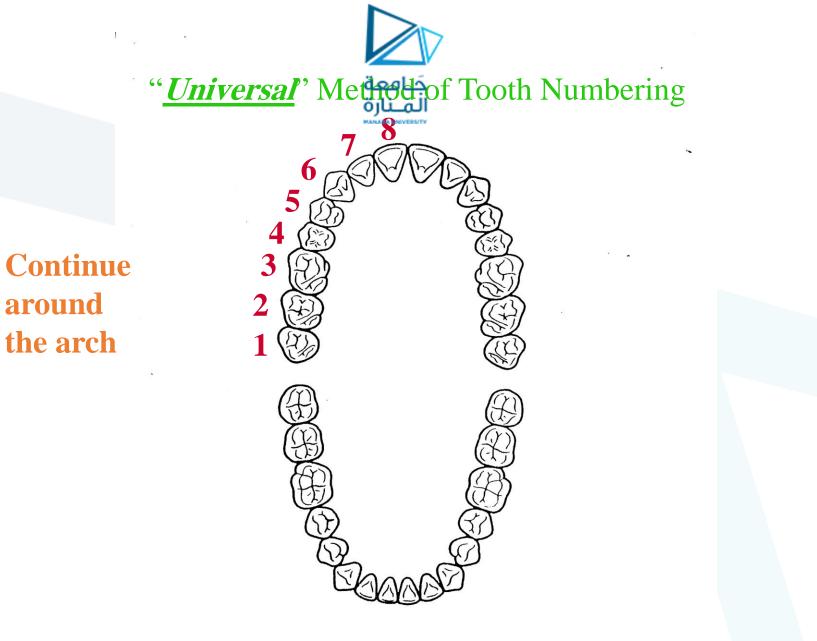


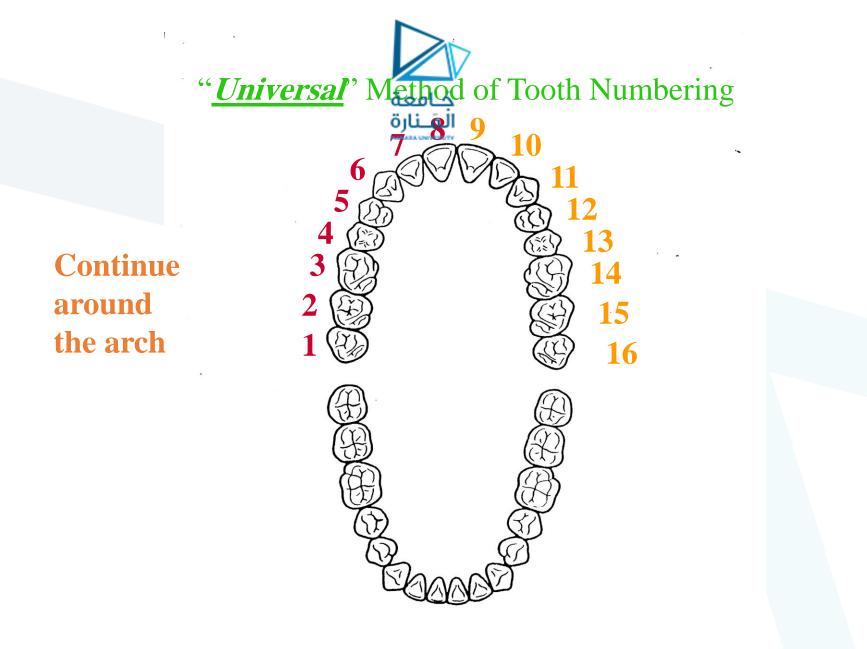
ABCDE	FGHIJ	1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16
T S R Q P	ONMLK	32 31 30 29 28 27 26 25	24 23 22 21 20 19 18 17

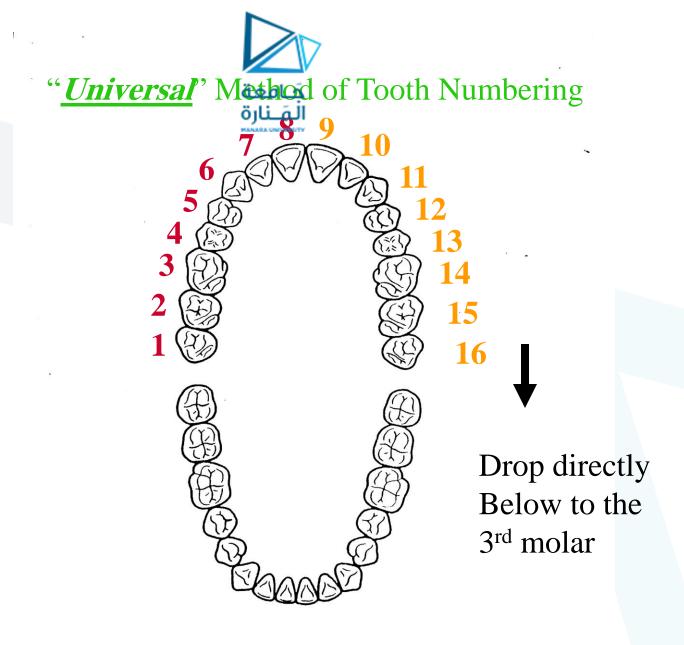


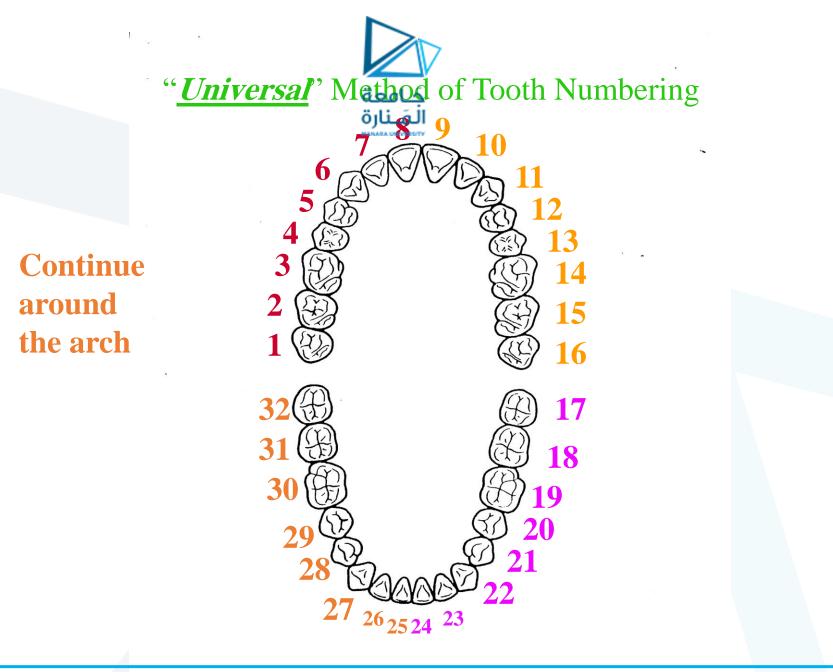


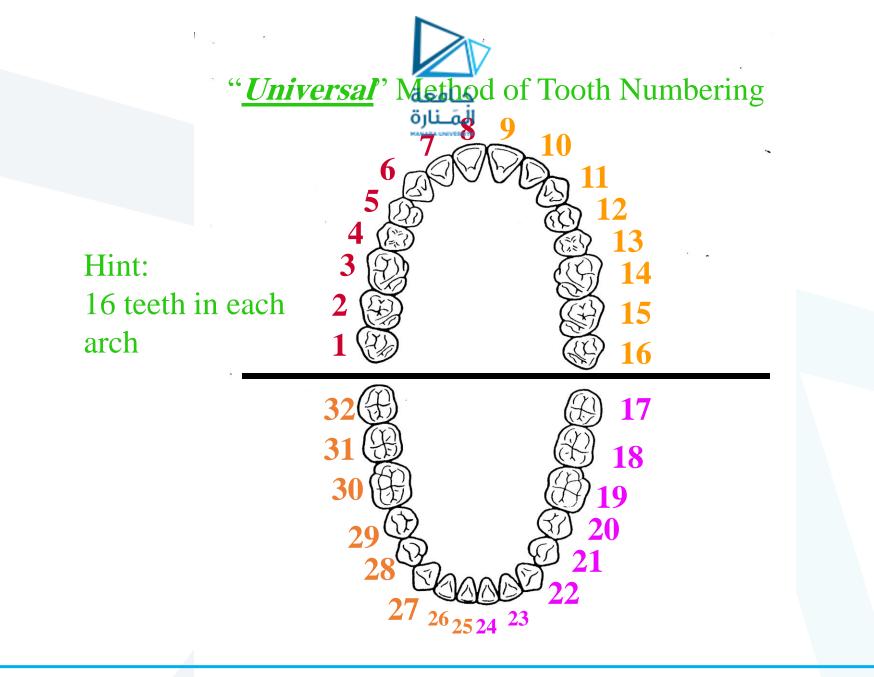




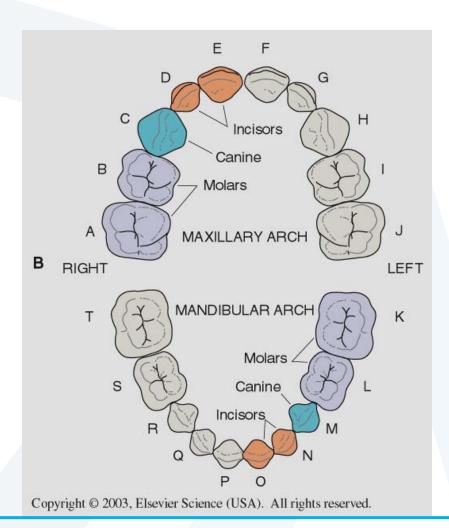






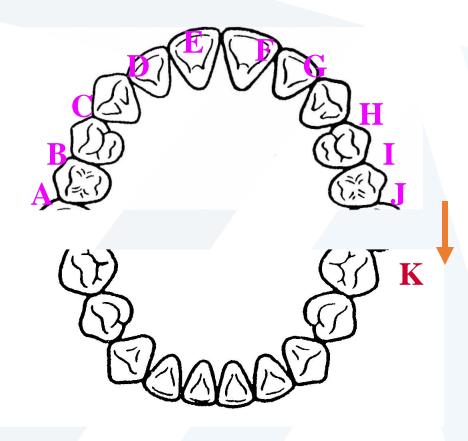


In the Universal Numbering System, the primary teeth are lettered with capital letters from A to T.





PRIMARY TEETH DECIDUOUS TEETH BABY TEETH



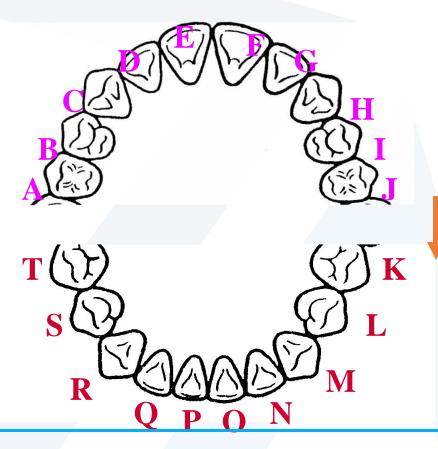




For deciduous dentition, letters A through T are used



PRIMARY TEETH DECIDUOUS TEETH BABY TEETH





International Dental Federation (FDI) Numbering System

- Uses a *two digit tooth recording system*.
- The first digit indicates the quadrant and the second indicates the tooth within the quadrant.
- The numbering is from the midline toward the posterior.
- The permanent teeth are numbered as follows:
 - Maxillary right quadrant is #1
 - Maxillary left quadrant is #2
 - Mandibular left quadrant is #3
 - Mandibular right quadrant is #4



- 1 = permanent dentition, maxillary, right
- 2 = permanent dentition, maxillary, left
- 3 = permanent dentition, mandibular, left
- 4 = permanent dentition, mandibular, right
- 5 = primary dentition, maxillary, right
- 6 = primary dentition, maxillary, left
- 7 = primary dentition, mandibular, left
- 8 = primary dentition, mandibular, right



• All numbers within the range 11 through 48 represent permanent teeth, for example 48 is a permanent mandibular right third molar .Numbers within the range 51 through 85 represent primary teeth, for example 51 is a primary maxillary right central incisor.



FDI Two-Digit Notation

upper right

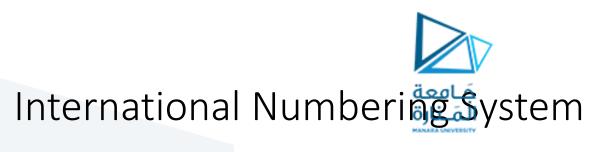
upper left

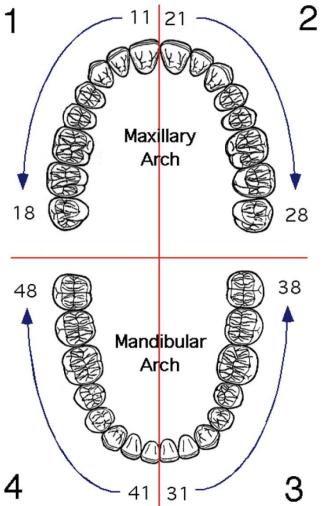
 18
 17
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 44
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 31
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 37
 38

lower right

lower left







FDI Two-Digit Notation

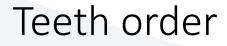
upper right

upper left

4	55	54	53	52	51	61	62	63	64	65	
	85	84	83	82	81	71	72	73	74	75	

lower right

lower left





Each tooth in a quadrant takes a letter (A - E for deciduous) or a number (1 - 8 for permanent) indicating its order when counting from the midline

EDCBA	ABCDE	87654321	1 2 3 4 5 6 7 8
Е D C B A	ABCDE	87654321	1 2 3 4 5 6 7 8



American Dental Association in 1947

Tooth is represented by a number 1 - 8 (permanent) or a letter A - E (deciduous)

Two lines; indicates which quadrant the tooth belongs to a horizontal representing the occlusal plane and a vertical representing the midline

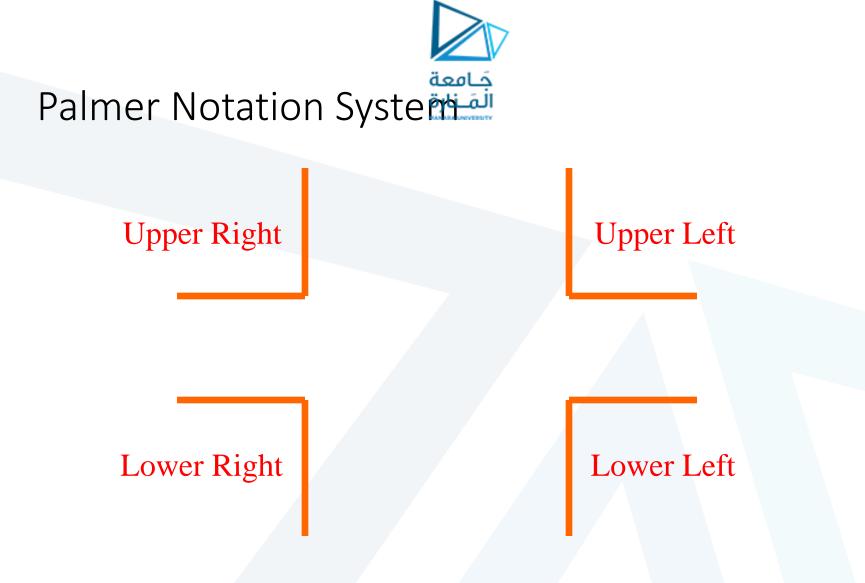
Examples:

Maxillary right central incisor

E

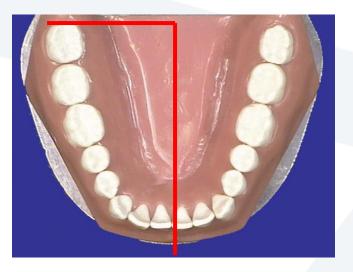
 EDCBA
 ABCDE
 87654321
 12345678

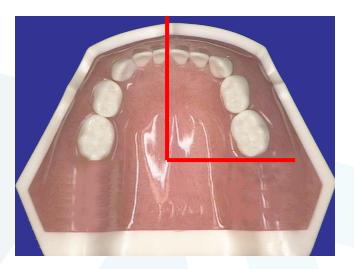
 EDCBA
 ABCDE
 https://mana.edu/.sy//21
 12345678



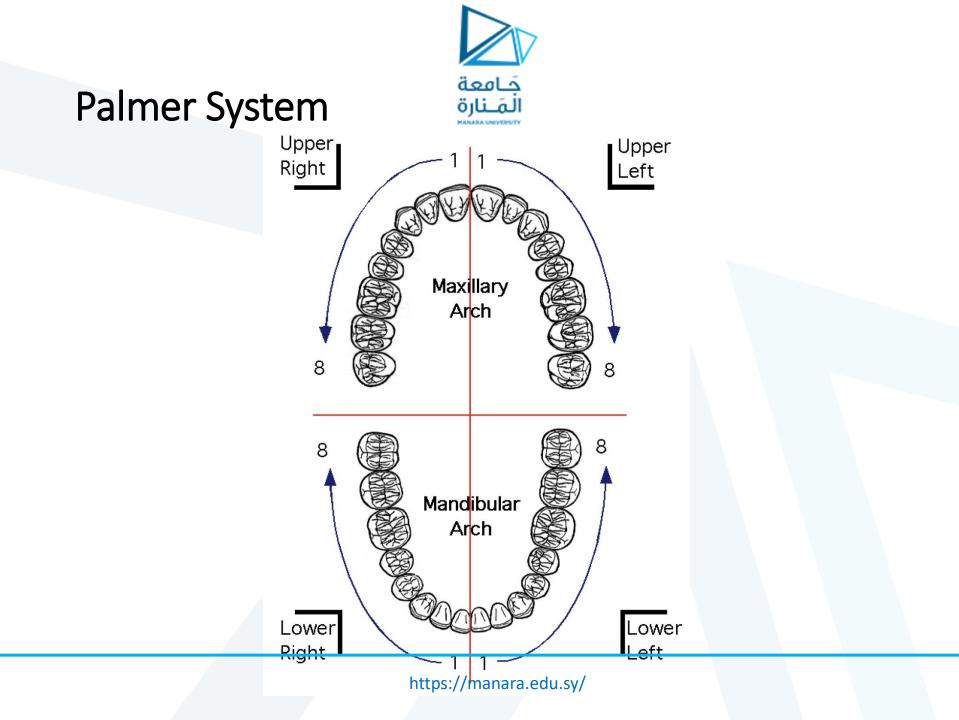
Uses brackets to represent the four quadrants

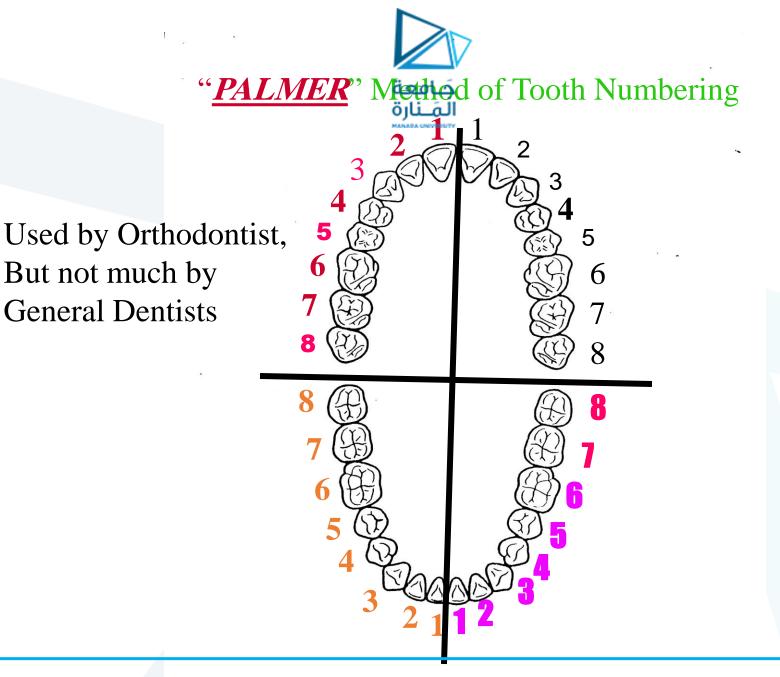






Permanent teeth are labeled 1 to 8 on each side of the midline On deciduous teeth same brackets with letters A through E







Palmer Notation

87654321 12345678 87654321 12345678



• For Primary teeth ,the same four brackets are used to denote the quadrants ,but letters of alphabet A through E represent the primary teeth (with A being a central incisor , B a lateral incisor , C a canine , etc .

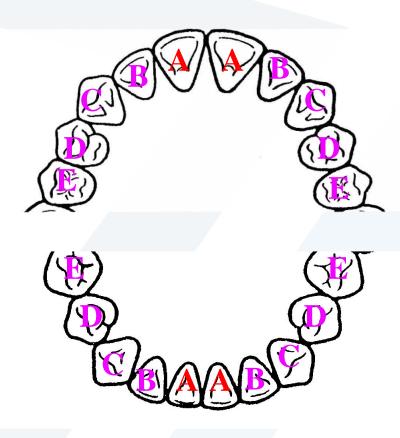


Palmer Notation

EDCBA ABCDE EDCBA ABCDE



PRIMARY TEETH DECIDUOUS TEETH BABY TEETH



The Palmer Notation.

	a sa	جاھ	
The Palmer N			ent Teeth
Maxillary Right	MANAG	A UNIVERSITY	Maxillary Left
87	654321	12345678	
87	654321	12345678	
Mandibular Right			Mandibular Left
	Tooth N	lumbers	
	Central inc	cisors #1	
	Lateral inc	isors #2	
	Canines	#3	
	1st premo		
	2nd premo		
	1st Molar		
	2nd Molar		
	3rd Molar	#8	
	Examples	of Charting	_
1	Maxillary righ	t central incisor	
2	Mandibular ri	ght lateral inciso	r
		-	
		first premolar	
8	Mandibular th	hird molar	
The Pal	mer Notatio	n for Primary Te	eeth
Maxillary Right			Maxillary Left
	EDCBA	ABCDE	-
	EDCBA	ABCDE	-
Mandibular Right			Mandibular Left
	Examples	of Charting	
AM	axillary right	central incisor	
BM	andibular rig	ht lateral incisor	
hereiter	axillary left in		
DM	andibular left	first primary mo	lar
	Tooth	Letters	
	Central inci	sors A	
	Lateral incis		
	Canines	С	
	1st primary		
	2nd primary	molar E	

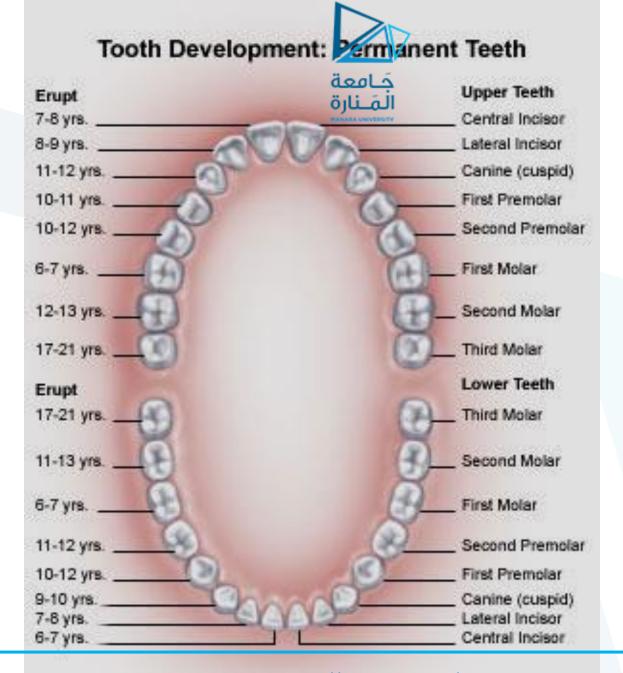
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Primary Teeth



جَامعة المَنارة Zsigmondy system

Roman numerals





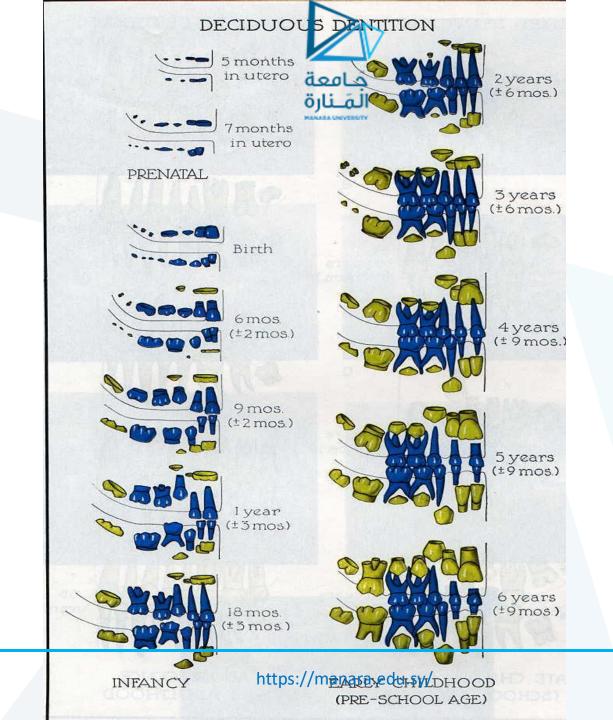
	Age Tooth Comes In (years)
Central Incisor	
Lateral Incisor	
Canine (Cuspid)	-11.35
First Premolar (Bicuspid)	
Second Premolar (Bicuspid)	—11.05
First Molar	6.30
Second Molar	-12.25
Third Molar	17 to 21
First Molar	
	6.05
Second Premolar (Bicuspid)	- 11.20
First Premolar (Bicuspid)	- 10.50
Canine (Cuspid)	- 10.35
Lateral Incisor	7.50
Central Incisor	6.40

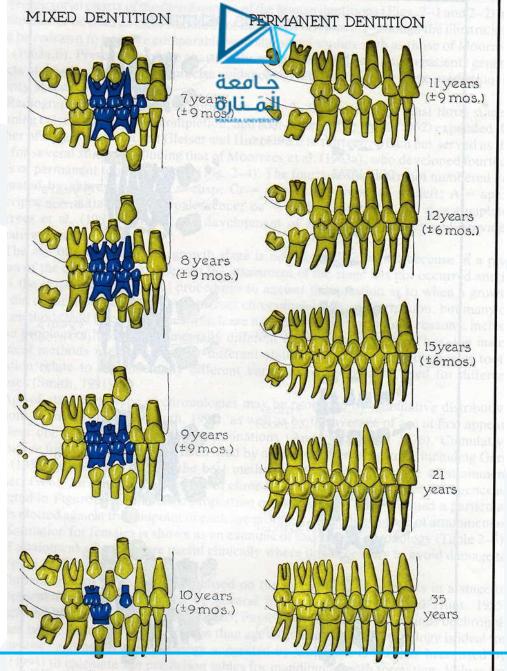


Central incisor.....Lower 6 ½ months, Upper 7 ½ months Lateral incisor.....Lower 7 months, Upper 8 months First deciduous molar...Lower 12-16 months, Upper 12-16 months Deciduous canine.....Lower 16-20 months, Upper 16-20 months Second deciduous molar..Lower 20-30 months, Upper 20-30

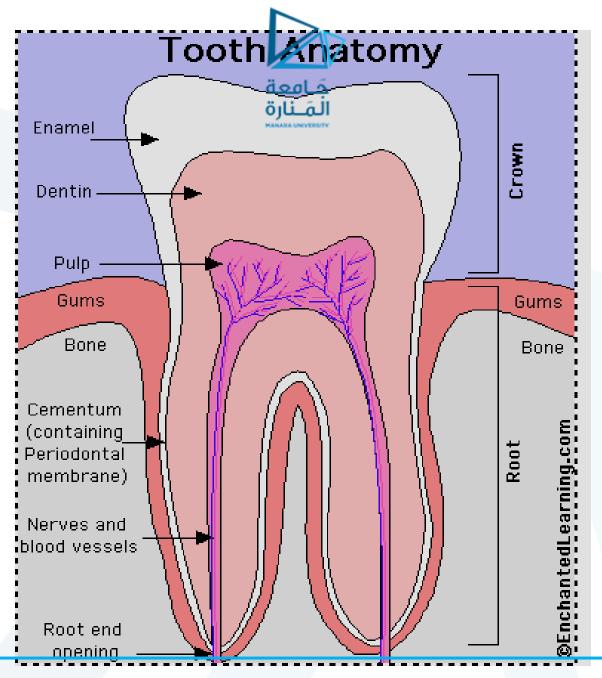


PRIMARY DENTITION Upper Teeth Erupt Exfoliate Central incisor 8-12 months 6-7 years Lateral incisor 9-13 months 7-8 years Canine (cuspid) 16-22 months 10-12 years First molar 13-19 months 9-11 years Second molar 25-33 months 10-12 years Lower Teeth Erupt Exfoliate Second molar 23-31 months 10-12 years First molar 14-18 months 9-11 years Canine (cuspid) 17-23 months 9-12 years PON Lateral incisor 10-16 months 7-8 years Central incisor 6-10 months 6-7 years





LATE CHILDHOOD https://manara.cooks/SCENCE (SCHOOL AGE) and ADULTHOOD



https://manara.edu.sy/

