Dental Growth and Development

Primary Dentition									
	Calcification begins at	Formation complete at	Erupt Maxillary	tion Mandibular	Exfolia Maxillary	ation Mandibular			
Central incisors	4th fetal mo	18-24 mo	6-10 mo	5-8 mo	7-8 y	6-7 y			
Lateral incisors	5th fetal mo	18-24 mo	8-12 mo	7-10 mo	8-9 y	7-8 y			
Canines	6th fetal mo	30-39 mo	16-20 mo	16-20 mo	11-12 y	9-11 y			
First molars	5th fetal mo	24-30 mo	11-18 mo	11-18 mo	9-11 y	10-12 y			
Second molars	6th fetal mo	36 mo	20-30 mo	20-30 mo	9-12 y	11-13 y			

Permanent Dentition								
	Calcification begins at	Crown (enamel) complete at	Roots complete at	Eruption* Maxillary Mandibular				
Central incisiors	3-4 mo	4-5 y	9-10 y	7-8 y (3)	6-7 y (2)			
Lateral incisors	Maxilla: 10-12 mo	4-5 y	11 y	8-9 y (5)	7-8 y (4)			
	Mandible: 3-4 mo	4-5 y	10 y					
Canines	4-5 mo	6-7 y	12-15 y	11-12y (11)	9-11y (6)			
First premolars	18-24 mo	5-6 y	12-13 y	10-11y (7)	10-12 y (8)			
Second premolars	24-30 mo	6-7 y	12-14 y	10-12 y (9)	11-13 y (10)			
First molars	Birth	30-36 mo	9-10 y	5.5-7 y (1)	5.5-7 (1a)			
Second molars	30-36 mo	7-8 y	14-16 y	12-14 y (12)	12-13 y (12a			
Third molars	Maxilla: 7-9 y			17-30 y (13)	17-30 y (13a			
	Mandible: 8-10 y							

^{*}Figures in parentheses indicate order of eruption. Many otherwise normal infants do not conform strictly to the stated schedule.

Logan~WHG,~Kronfeld~R.~Development~of~the~human~jaws~and~surrounding~structures~from~birth~to~the~age~of~fifteen~years.~J~Am~Dent~Assoc~1933;20(3):379-427.~Copyright~@~1933~American~Dental~Association.~All~rights~reserved.~Adapted~2003~by~permission.

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