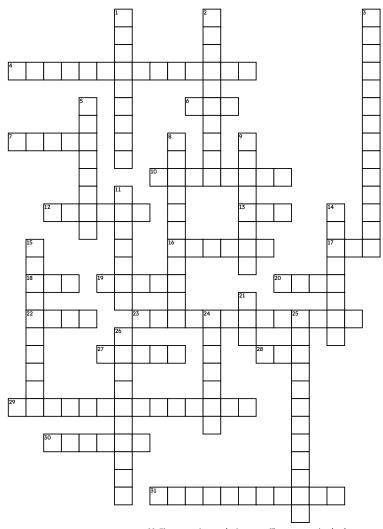
Name:	Date:
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Jamil Enamel



4. The 1st wave of enamel mineralization occurs in the incisal/occlusal part of the future crown nearer to the DEJ and moves to the ______ surface.

- 6. Tomes process has a _____ sided pyramidal shape.
- 7. The enamel rod is also known as the enamel _
- 10. The ______ line is a pronounced incremental line of Retzius, & marks trauma experienced by the ameloblasts during birth.
- **12.** ____ is a crystalline material and is the hardest calcified tissue in the human body.
- 13. Tomes process is the secretory surface of the ameloblast the faces the ______.
- **16.** On enamel, a prominent groove that can be found on the lateral incisor is also known as a lateral ______.
- 17. Enamel matrix is an ectodermal product, because ameloblasts are derived from the ______of the enamel organ, which was originally derived from the ectoderm of the embryo.
- 18. Mineralization of enamel matrix to a fully matured tissue covers how many stages of tooth development?
- 19. The enamel _____ are microscopic features & are noted as small, dark brushes with their bases near the DEJ 20. Tomes process is responsible for the way the enamel matrix is

- **22.** The enamel ____ is the crystalline structural unit of enamel; thus enamel is composed of millions of enamel
- 23. After the enamel cusp tip erupts through the oral mucosa, ameloblasts are lost forever as the fused tissue
- during tooth eruption, preventing any further enamel appositional growth.
- 27. The enamel matrix is secreted from each ameloblast from
- 28. After the ameloblast are finished with both enamel appositional growth & maturation, they become part of the?
- 29. Surrounding the outer part of each enamel rod is the region (interrod enamel).
- **30.** The REE will later fuse with the oral _____,crec protective tunnel to allow the enamel cusp tip to erupt.
- **31.** The lines of Retzius are rasied _____ lines & grooves of perikymata on the nonmasticatory surfaces of the teeth.
- During the apposition stage the enamel matrix is only _____mineralized at approximately 30%.
- 2. Amelogenesis occurs during what stage of tooth development?
- 3. Crystal formation of mature enamel consists mainly of calcium _____

- 5. The enamel ______ are partially mineralized vertical sheets of enamel matrix that extend from the DEJ near the tooth's cervix to the outer occlusal surface.
- 8. Enamel matrix is produced by _
- 9. Enamel is derived from which germ layer?
- 11. Lines of ____ are the incremental lines on how enamel was laid down & are only found in mature enamel (rings of trees).
- 14. The enamel **14.** The enamel _____ are microscopic features of mature enamel & represent short dentinal tubules near the DEJ
- 15. During the ______ stage of tooth development, enamel matrix completes its mineralization process to its full level of 96%.
- 21. The 2nd wave of enamel mineralization overlaps the 1st wave as the process moves cervivally to the forming _____
- 24. The fused tissue can later become part of the
- is the formation of enamel matrix.
- **26.** When ameloblasts become part of the REE along with other tissue types of the ______ enamel organ.

Word Bank

Spindles Apposition hydroxyapatite **Amelogenesis** Rods **Nonmasticatory** Compressed Tomes **Ectoderm Imbrication**

Partially LAVERY Retzius Enamel IEE

CEJ REE Neonatal six laid

Disintegrates Mucosa **Ameloblasts** Tufts **Interprismatic**

Maturation Lamellae prism Nasmyth DEJ