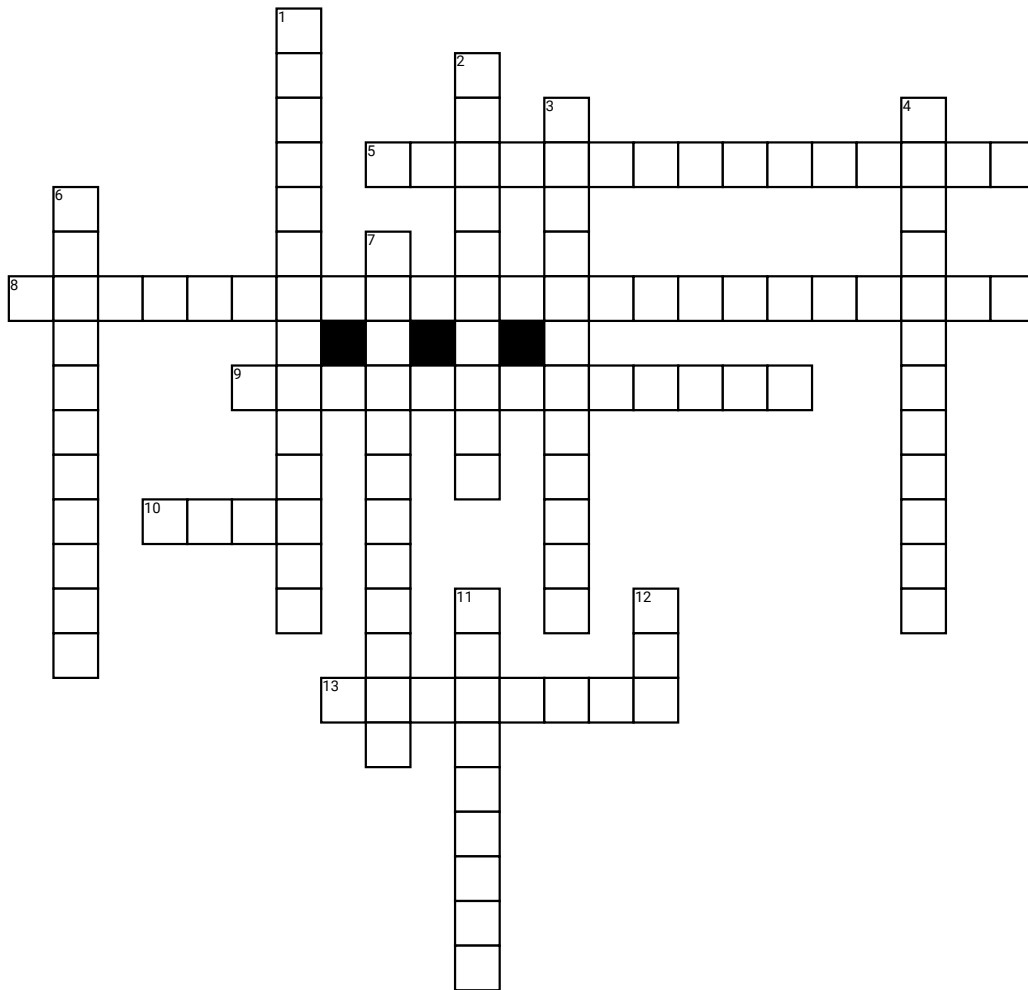


# Root Development



## Across

**5.** Takes place after crown is completely shaped & tooth is starting to erupt into the oral cavity.

**8.** As a result of the apposition of cementum over the dentin what is formed?

**9.** Cells that form cementoid and move to cover the root dentin area and undergo cementogenesis, laying down cementum matrix, or cementoid.

**10.** Shapes the root by inducing dentin formation in the root & then disappears and becomes ERM.

**13.** As the cementoid surrounding the cementocytes becomes calcified, or matured, it is then considered what?

## Down

**1.** Appositional growth of predentin by odontoblasts.

**2.** Forms when the outer cells of the dental papilla in the root area are induced to undergo differentiation and become odontoblasts.

**3.** Cells that produce dentin and differentiate from outer cells of the dental papilla.

**4.** Structure responsible for root development, forms length and shape of root, most cervical part of the enamel organ, a bilayer rim that consists of only IEE & OEE.

**6.** Due to the lack of the intermediate layers of the stellate reticulum and stratum intermedium, HERS induces odontoblastic differentiation but fails to have IEE differentiate into enamel-forming cells known as?

**7.** Many cementoblasts become entrapped by the cementum they produce and become mature what?

**11.** After the differentiation of odontoblasts in the root area, these cells undergo dentinogenesis and begin to secrete this.

**12.** When root dentin formation is completed, part of the basement membrane disintegrates, after disintegration of the root sheath its cells may become this.

## Word Bank

HERS

Dentinocemental junction

Odontoblasts

Cervical Loop

Root dentin

ERM

Cementocytes

Cementoblasts

Cementum

Ameloblasts

Predentin

Dentinogenesis

Root Development