#### **Seed structure & Germination**

**Seed**: Is a mature ovule that include a seed coat (testa), food supply (endosperm) and embryo.

## A-Bean seed (Dicot)

**Micropyle**: a small opening on the surface through which the pollen tube grew.

Hilum: The elliptical area at which the ovule was attached to the ovarian wall.

**Cotyledon:** Food storage organs for the embryo.

**Embryo:** develops into the new sporophyte and conitiend.

**Epicotyle**: The small portion of the embryo located above the attachment of the cotyledons to develop first true leaves (plumules).

**Hypocotyle**: The small portion of the embryo located below the attachment of the cotyledons to develop lower end (radicle).

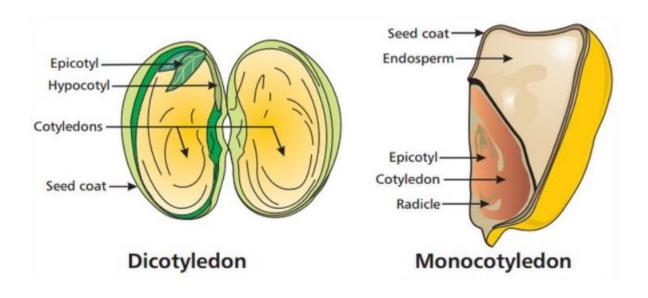
## **B-Corn seed (Monocot)**

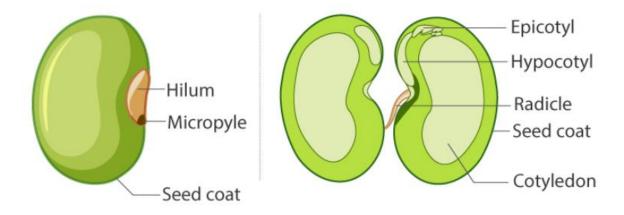
Cotyledon, plumule and radicle. In addition:

**Endosperm**: stored food for the embryo.

**Coleorhiza**: sheath enclosing embryonic root of grass embryo.

**Coleoptile**: A sheath the covers the emerging leaves.

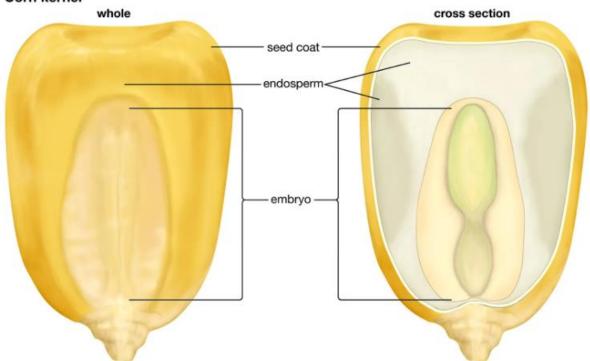




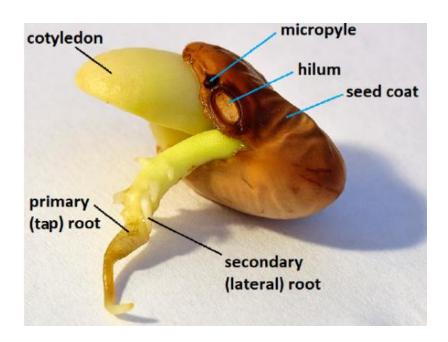
(b) A mature embryo with its parts

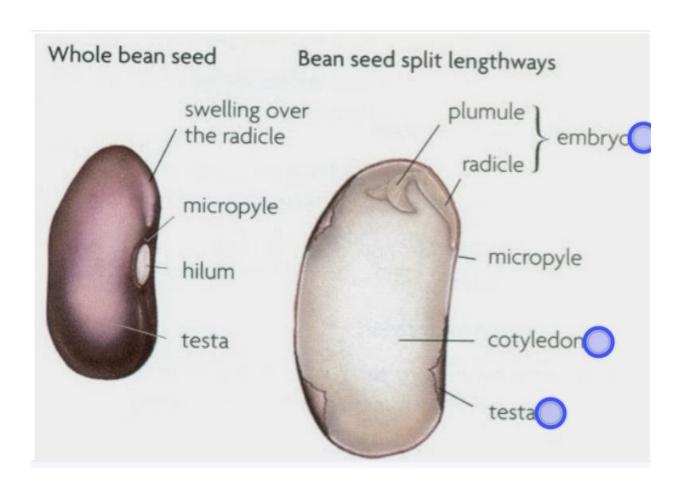
(a) Lateral view of a seed

#### Corn kernel



© 2013 Encyclopædia Britannica, Inc.





# **MONOCOT & DICOT SEEDS**

