

Abiotic pollination by wind



**Hazel carpellate
flower (carpels only)**

**Hazel staminate
flower (stamens only)**

Pollination by insects



**Common dandelion
under normal light**



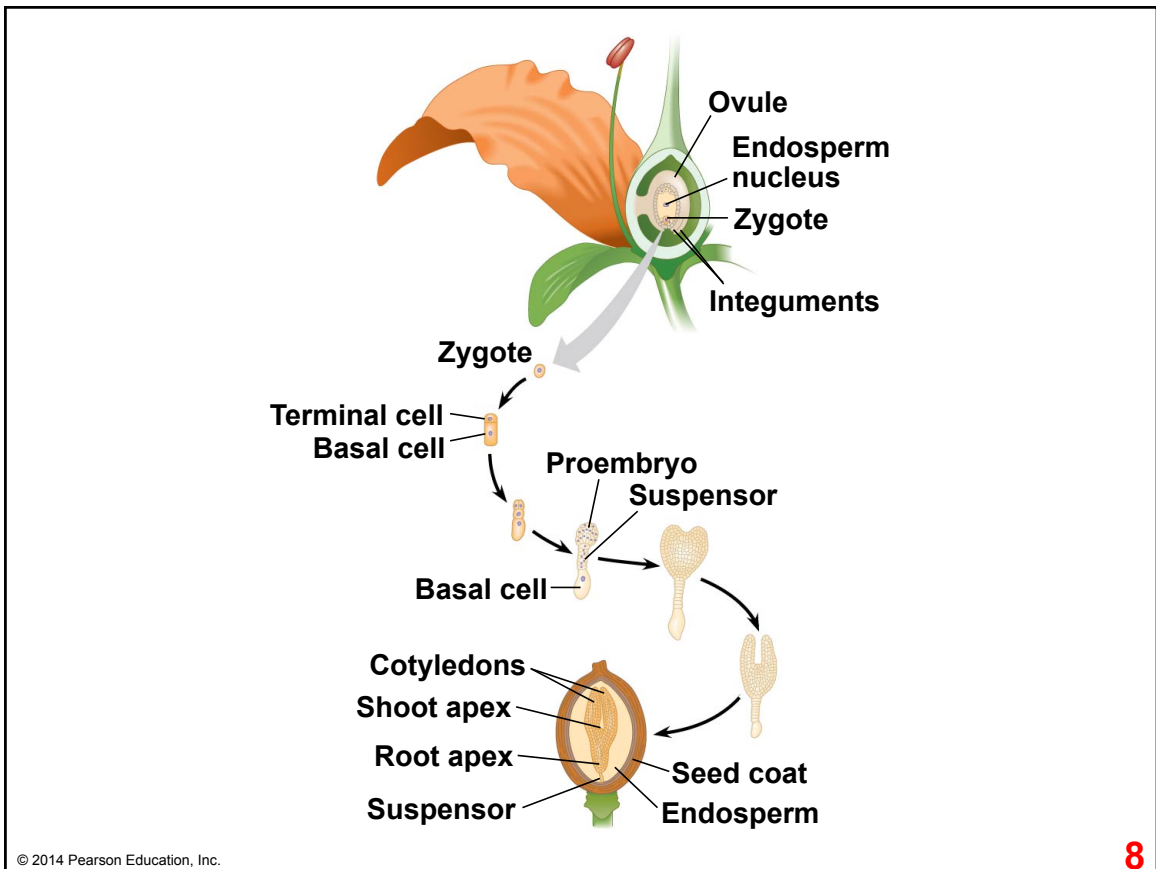
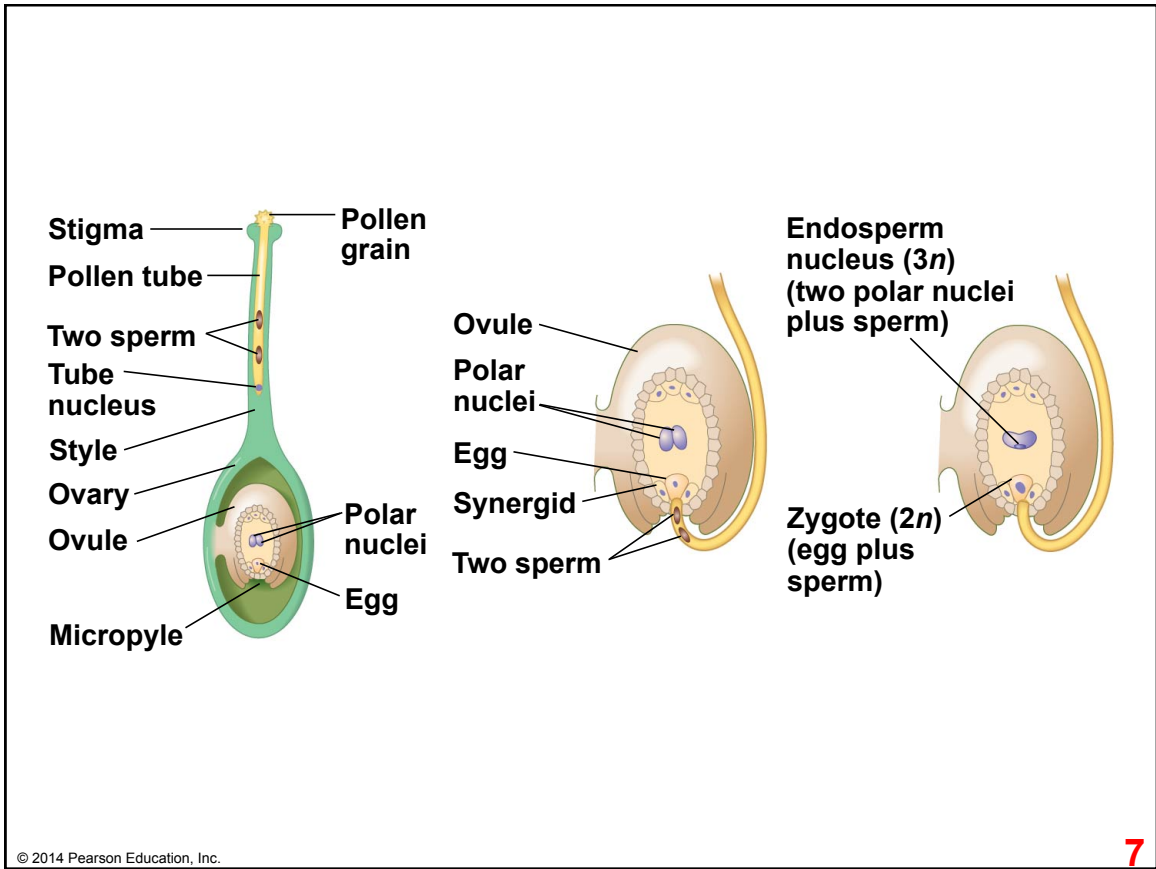
**Common dandelion
under ultraviolet
light**

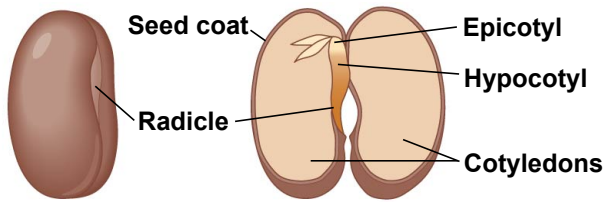
Pollination by bats or birds

**Long-nosed bat
feeding on cactus
flower at night**

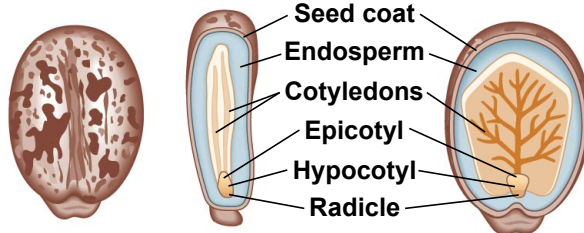


**Hummingbird
drinking nectar of
columbine flower**

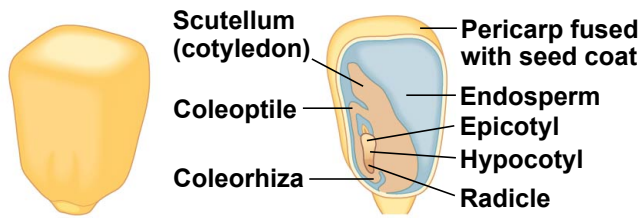




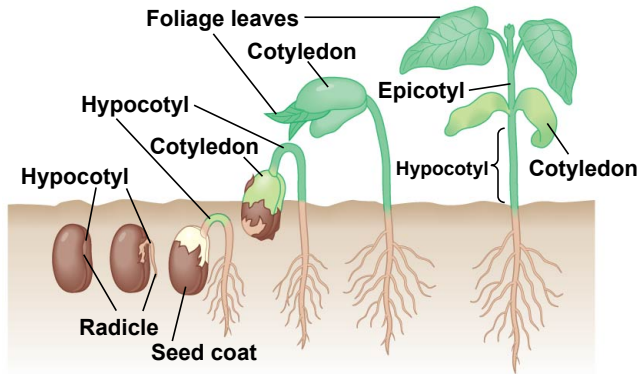
(a) Common garden bean, a eudicot with thick cotyledons



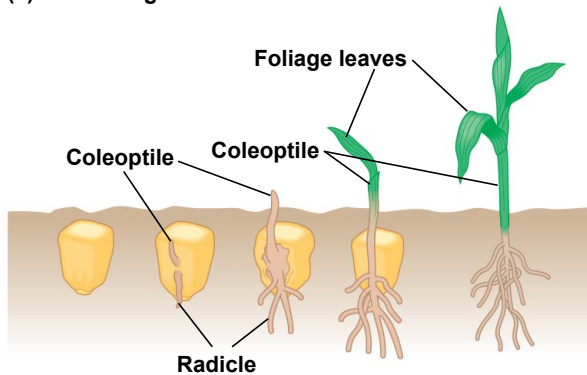
(b) Castor bean, a eudicot with thin cotyledons



(c) Maize, a monocot



(a) Common garden bean



(b) Maize

(a) Simple fruit
 Pea flower: Stamen, Ovary, Stigma, Ovule
 Pea fruit: Seed

(b) Aggregate fruit
 Raspberry flower: Carpels, Stamen
 Raspberry fruit: Carpel (fruitlet), Stigma, Ovary, Stamen

(c) Multiple fruit
 Pineapple inflorescence: Flower
 Each segment develops from the carpel of one flower
 Pineapple fruit

(d) Accessory fruit
 Apple flower: Stigma, Style, Petal, Sepal, Ovule, Stamen, Ovary (in receptacle)
 Apple fruit: Remains of stamens and styles, Sepals, Seed, Receptacle

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Dispersal by water

Coconut seed embryo, endosperm, and endocarp inside buoyant husk

Dispersal by wind

Giant seed of the tropical Asian climbing gourd *Alsomitra macrocarpa*

Dandelion fruit
 Dandelion "seeds" (actually one-seeded fruits)

Winged fruit of a maple

Tumbleweed

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Dispersal by animals



**Fruit of puncture vine
(*Tribulus terrestris*)**



**Squirrel hoarding seeds or fruits
underground**



Seeds dispersed in black bear feces



**Ant carrying seed with
attached "food body"**



**(a) Staminate flowers (left) and carpellate flowers (right)
of a dioecious species**



Thrum flower

Pin flower

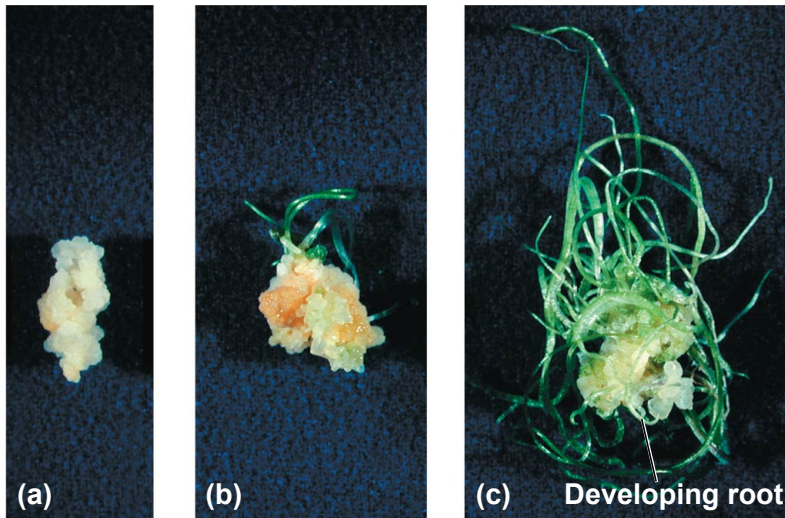
(b) Thrum and pin flowers



Asexual reproduction in aspen trees

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Laboratory cloning of a garlic plant

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