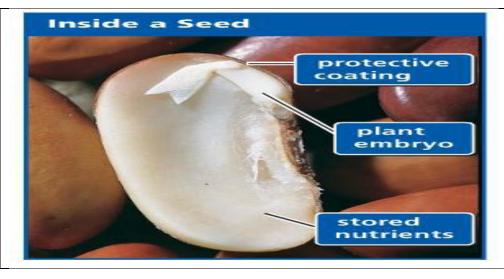
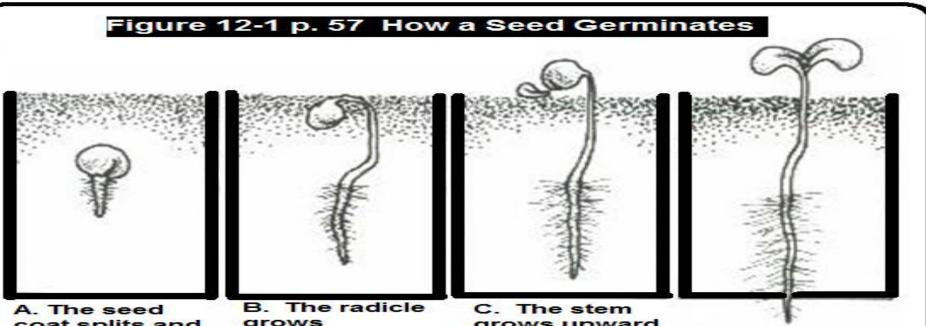
## Plant Study Guide for Week 1



Life Cycle for Wisconsin Fast Plants (calendar on p. 8)

- 1. When will the cotyledons emerge?
- 2. When will the true leaves emerge?
- 3. When will the flower buds appear?
- 4. What are the days of the growth spurt? Answer: *days 10, 11, or 12*
- 5. When should pollination occur?
- 6. When will the seed pods develop?
- Answer: day 2 or 3 Answer: days 4,5, or 6 Answer: days 7, 8 or 9 ? Answer: days 10, 11, or 12 Answer: days 14 to 19 Answer: days 19 to 35



A. The seed coat splits and the embryonic root or radicle, emerges. B. The radicle grows downward and develops root hairs.

C. The stem grows upward and pulls the cotyledons above the soil. The seed coat falls off.

D. The cotyledons open.

Monocot Monocot	Dicot Dicot Dicot One long tap root (like our lima bean)	Monocots       Examples         Seed       Leaf       Stem       Flower       grass corn rice Lilies tulips hay         One cotyledon       Parallel veins       Scattered bundles of vascular tissue       Flower parts in threes       hay
Fibrous roots (like our corn)		Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots Dicots
vascular tissue arranged randomly without any	vascular tissue arranged in a circle	Two cotyledons Branching veins Circle of Flower parts
shape (overused pin cushion)	(honeycomb shape) in the stem	Two cotyleaons Branching veins vascular tissue in fours or fives
Parallel veins in long/slender leaves	net-like veins in wider leaves	<ul> <li>Monocot-A seed with one food storage area is called a <i>monocotyledon</i>, or <i>monocot</i>.</li> <li>Flowers of monocots have either three petals or multiples of three.</li> <li>The leaves of monocots are long and slender with veins</li> </ul>
		<ul> <li>that are parallel to each other.</li> <li>The vascular tube structures are usually scattered randomly throughout the stem.</li> <li>Examples-include grass, corn, rice, lilies, tulips and hay.</li> </ul>
plant parts/flowers in groups of threes	plant parts/flowers in groups of fours or fives	<ul> <li>Dicot-A seed with two food storage areas is called a <i>dicotyledon</i>, or <i>dicot</i>.</li> <li>Flowers of dicots have either four or five petals or multiples of these numbers.</li> <li>The leaves are usually wide with branching veins.</li> <li>The vascular tube structures are arranged in circular bundles.</li> <li>Examples- roses, dandelions, maple, and oak trees.</li> </ul>