# COMPLETE CONCEPT INTEGRATION<sup>TM</sup> SCIENCE



### GERMINATION

- $\rightarrow$  The process where the seed develops into a seedling.
- $\rightarrow$  Requirements for germination: water, oxygen, and warmth

#### **SEED COAT**

→ Protects the seed leaves.\*Does NOT provide food for the seedling.

#### **SEED LEAVES**

→ Store food for the seedling to use in the process of respiration to release energy until the true leaves are formed.



→ Contain chloroplasts, which contain chlorophyll to trap sunlight in the process of **photosynthesis** to **make food** (sugar).

### FOOD (SUGAR)

→ The food is used together with oxygen by the plant cells in the process of **respiration** to **release energy** for growth.

#### SEED LEAVES

→ The mass of the seed leaves decrease as the stored food is used by the seedling. The seed leaves eventually wither and drop off.



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## COMPLETE CONCEPT INTEGRATION™ SCIENCE **PLANT CYCLE IN A NUTSHELL**



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