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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Keys and Direct Video Link

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Crash Course Biology (2012) #6: Plant Cells

Name: _____ Date: _____

You can access the video here → <https://youtu.be/9UyfqAVCoqY?list=PL88Fq836wA>

- Plants make their own food by _____, turning light into sugar and releasing oxygen.
- The only inputs plants need to "cook" their food are _____ and water.
- Earliest land-plant fossils date back more than _____ years ago.
- In eukaryotes, the "good kernel" refers to the _____, where DNA is enclosed by a membrane.
- Prokaryotes include _____ as well as archaea.
- The rigid outer layer of plant cells—the _____—is mainly cellulose and lignin.
- _____ is simply a long chain of glucose molecules.
- Because we can't digest cellulose and lignin, they act as dietary _____.
- Plastids and mitochondria have _____ membranes—evidence of their bacterial origins.
- The plastids that capture light energy to make sugar are _____.
- Vacuoles generate internal _____ pressure that helps plants stay rigid.
- When vacuoles lose water, a plant _____ or gets floppy.
- Together, cellulose and _____ let trees grow extremely tall.
- Eukaryotic cells contain "stuff-doing factories" called _____.
- Flowering plants known as _____ appeared near the end of the Cretaceous (~65 million years ago).

Crash Course Biology (2012) #6: Plant Cells - KEY

- Plants make their own food by **photosynthesis**, turning light into sugar and releasing oxygen.
- The only inputs plants need to "cook" their food are **sunlight** and water.
- Earliest land-plant fossils date back more than **400 million** years ago.
- In eukaryotes, the "good kernel" refers to the **nucleus**, where DNA is enclosed by a membrane.
- Prokaryotes include **bacteria** as well as archaea.
- The rigid outer layer of plant cells—the **cell wall**—is mainly cellulose and lignin.
- Cellulose** is simply a long chain of glucose molecules.
- Because we can't digest cellulose and lignin, they act as dietary **roughage**.
- Plastids and mitochondria have **double** membranes—evidence of their bacterial origins.
- The plastids that capture light energy to make sugar are **chloroplasts**.
- Vacuoles generate internal **turgor** pressure that helps plants stay rigid.
- When vacuoles lose water, a plant **wilts** or gets floppy.
- Together, cellulose and **lignin** let trees grow extremely tall.
- Eukaryotic cells contain "stuff-doing factories" called **organelles**.
- Flowering plants known as **angiosperms** appeared near the end of the Cretaceous (~65 million years ago).

15 Questions

Answer Key Included

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