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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Crash Course Biology (2012) #35: Archaea, Bacteria, and Protists

Name: _____ Date: _____

You can access the video here → <https://youtu.be/yAR47-g6dIA?si=foNS5gVdIT74v-CQ>

1. The three groups highlighted for unicellular life include _____, bacteria, and protists.
2. Protists are mostly single-celled _____ organisms within the domain Eukarya.
3. Archaea and bacteria are single-celled _____ organisms.
4. Eukaryotic cells store their genetic information in a _____, which prokaryotes lack.
5. In prokaryotes, DNA is often organized in circular _____ rather than chromosomes.
6. Both prokaryotic and eukaryotic cells have _____ that synthesize proteins.
7. Archaea that generate methane as a waste product are called _____.
8. Heat-loving archaea that thrive at temperatures above the boiling point are _____.
9. Salt-loving archaea found in places like the Dead Sea are known as _____.
10. Bacteria can swap genes across lineages via _____, aiding antibiotic resistance.
11. In gram staining, bacteria with thick cell walls are classified as _____ positive.
12. The largest group of gram-negative bacteria are the _____, named for their many forms.
13. The only prokaryotes that perform photosynthesis to make food are _____.
14. Tiny unicellular algae called _____ have hard shells made of silica.
15. Red algae contain the accessory pigment _____, which helps them live at greater depths.

Crash Course Biology (2012) #35: Archaea, Bacteria, and Protists - KEY

1. The three groups highlighted for unicellular life include **archaea**, bacteria, and protists.
2. Protists are mostly single-celled **eukaryotic** organisms within the domain Eukarya.
3. Archaea and bacteria are single-celled **prokaryotic** organisms.
4. Eukaryotic cells store their genetic information in a **nucleus**, which prokaryotes lack.
5. In prokaryotes, DNA is often organized in circular **plasmids** rather than chromosomes.
6. Both prokaryotic and eukaryotic cells have **ribosomes** that synthesize proteins.
7. Archaea that generate methane as a waste product are called **methanogens**.
8. Heat-loving archaea that thrive at temperatures above the boiling point are **thermophiles**.
9. Salt-loving archaea found in places like the Dead Sea are known as **halophiles**.
10. Bacteria can swap genes across lineages via **horizontal gene transfer**, aiding antibiotic resistance.
11. In gram staining, bacteria with thick cell walls are classified as **Gram positive**.
12. The largest group of gram-negative bacteria are the **proteobacteria**, named for their many forms.
13. The only prokaryotes that perform photosynthesis to make food are **cyanobacteria**.
14. Tiny unicellular algae called **diatoms** have hard shells made of silica.
15. Red algae contain the accessory pigment **phycoerythrin**, which helps them live at greater depths.

15 Questions

Answer Key Included

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