**BIOLOGY 2022-23 March 21, 2023**

**Today’s Agenda (Day 129)**

1. HOUSEKEEPING ITEMS

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1. Homework Check:

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1. Class Activity:

🡪 **QUIZ: Ch 17 & 18 Vocabulary**

🡪DAY 3: Chapter 18 PPT Review

1. **Section 18.1 – Bacteria**
2. **Section 18.2 – Viruses and Prions**

HOMEWORK:

* READ: Chapter 18 – Bacteria and Viruses
* COMPLETE:
* **STUDY**: Chapter 17 & 18 Vocabulary Quiz and Chapter 18 Test

REMINDERS:

* **~~QUIZ: Ch 17 & 18 Vocabulary🡪 March 21~~**
* **TEST: Ch 18 🡪 March 23**
* **QUIZ: Ch 19 & 20 Vocabulary🡪 April 4**
* **TEST: Ch 19 🡪 March 30**
* **TEST: Ch 20 🡪April 6**
* **TEST: Ch 30 - 31 🡪April 13**
* **QUIZ: Ch 32 Vocabulary🡪 April 18**
* **TEST: Ch 32 🡪April 20**
* **TEST: Ch 33 🡪May 4**
* **QUIZ: Ch 33 & 34 Vocabulary🡪 May 9**
* **TEST: Ch 34 🡪May 11**
* **QUIZ: Ch 35 Vocabulary🡪 May 23**
* **TEST: Ch 35 🡪May 25**
* **QUIZ: Ch 36 Vocabulary🡪 May 30**
* **TEST: Ch 36 🡪June 1**

Chapter 17 – Organizing Life’s Diversity

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| --- | --- | --- | --- | --- | --- |
| Archaea | Binomial nomenclature | Character | Cladistics | Cladogram | Classification |
| Division | Domain | Family | Fungus | Genus | Kingdom |
| Molecular clock | Order | Phylogeny | Phylum | Protist | Taxon |
| taxonomy |  |  |  |  |  |

Chapter 18 – Bacteria and Viruses

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| Bacteria | Binary fission | Capsid | Capsule | Conjugation | Endospore |
| Lysogenic cycle | Lytic cycle | Nucleoid | Pilus | Prion | Retrovirus |
| Virus |  |  |  |  |  |

**BIOLOGY 2022-23 READING GUIDE**

**CH 18 Bacteria & Viruses Reading Guide**

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| 1. Describe what scientists think the first organisms on Earth were like. 2. Why are prokaryotes now divided into two domains?  What are the two domains? 3. Describe the importance of bacteria to humans. 4. Where do Archae live?  What is another name for Archae? 5. Compare and contrast bacteria and Archae. 6. Compare and contrast thermoacidophiles and halophiles. 7. What are methanogens?  Where do they live? 8. **Using** the picture below, describe the function of all of the labeled structures.   Diagram  Description automatically generated   1. List and describe the three general shapes of prokaryotes. 2. How do Gram-positive bacteria look when they are stained?  Why do they look this way? 3. How do Gram-negative bacteria look when they are stained?  Why do they look this way? 4. Describe two different ways that prokaryotes move. 5. Compare and contrast binary fission and conjugation as reproductive methods for prokaryotes. 6. **What** process is shown in the figure below?   Diagram  Description automatically generated   1. Describe the difference between obligate anaerobes and facultative anaerobes. 2. Describe how each of the following types of prokaryotes obtain food: heterotrophs, photoautotrophs, and chemoautotrophs. 3. How do endospores help bacteria survive? 4. Why is nitrogen fixation essential for life on Earth? 5. List three types of food that are all made with the help of bacteria. 6. Describe two different ways bacteria can cause disease. 7. What is a virus? 8. Describe a theory on how viruses evolved. 9. **Describe** the general structure of a virus (be sure to include the definition of capsid in your answer). 10. How do viruses infect hosts cells? 11. Compare and contrast the lytic cycle and the lysogenic cycle in viruses. 12. What is a retrovirus? 13. What are prions?  Name two diseases caused by prions. 14. **What** type of viruses are illustrated below?  How do you know?   Diagram, radar chart  Description automatically generated  A picture containing text, indoor, table  Description automatically generated |