J. Harwood Biology 11

Virus Introduction

Background: Consider what you know already

Now that we have a better understanding of DNA structure and replication, protein synthesis, and some DNA biotechnologies we can begin to move forward with Biology 11.

Consider the overall theme of our course: how do living things change over time? Our plan for the next few weeks is to look at very simple structures such as viruses and bacteria, discover how they have changed over time, and predict how they might influence the rest of the planet.

Today we'll learn a little bit about viruses by watching:

- 50 minute documentary "Understanding Viruses"
 - o https://www.youtube.com/watch?v=lu400W2vxh8
- 57 minute documentary "Amazing Virus Evolution"
 - o https://www.youtube.com/watch?v=UmH5vUpufyA&t=9s

Questions: Use your Nelson textbook

Read pg. 199 - 200

- 1. Why do viruses occupy a position between non-living and living?
- 2. List 5 viral diseases.
- 3. What is the size of a typical virus?
- 4. What is a bacteriophage?

5. Draw and label a diagram of the lytic cycle.

6. Draw and label a diagram of the lysogenic cycle.

5.	What is the most widely accepted view of the origin of viruses?

6. Why is it difficult to establish the origin (phylogeny) of viruses?