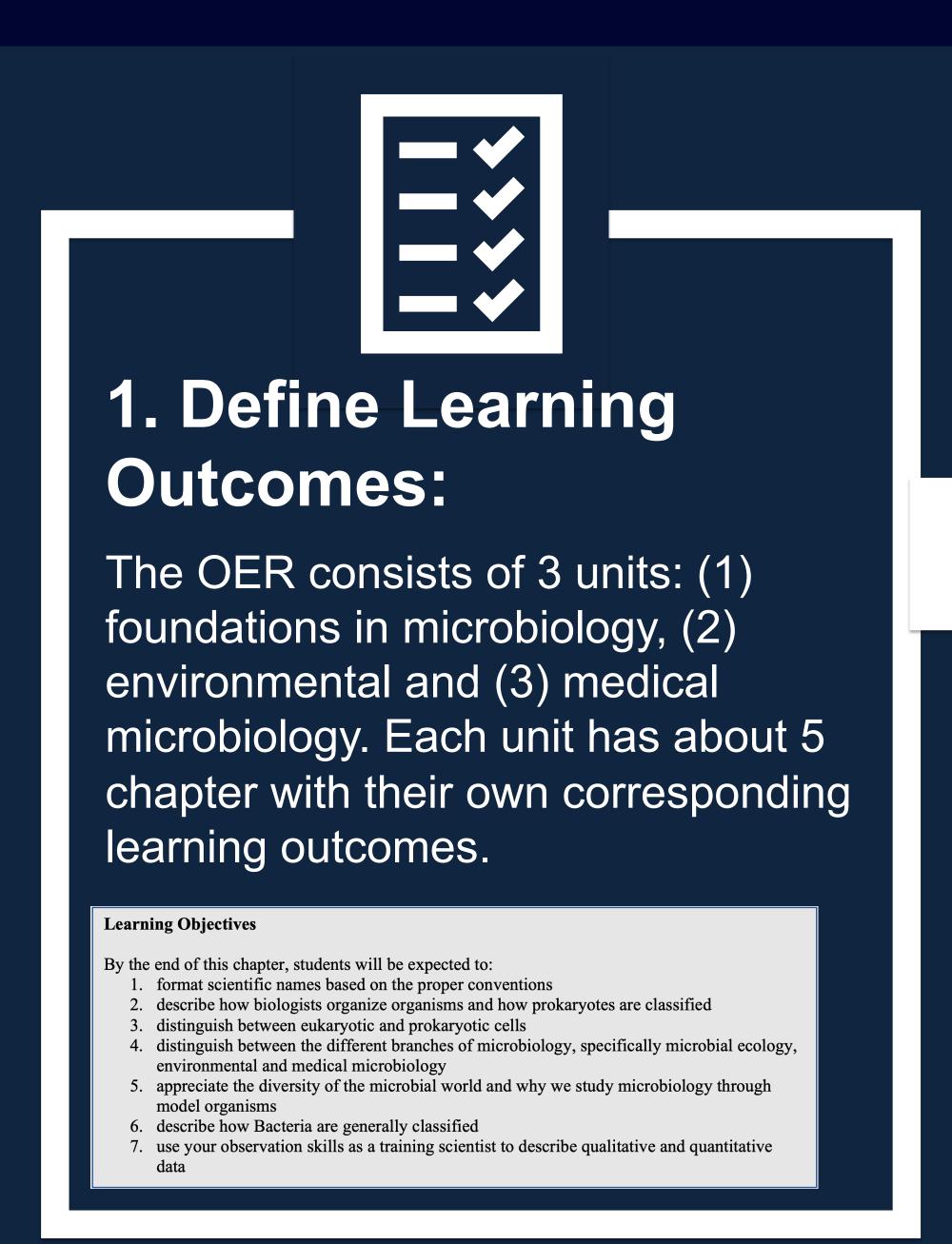
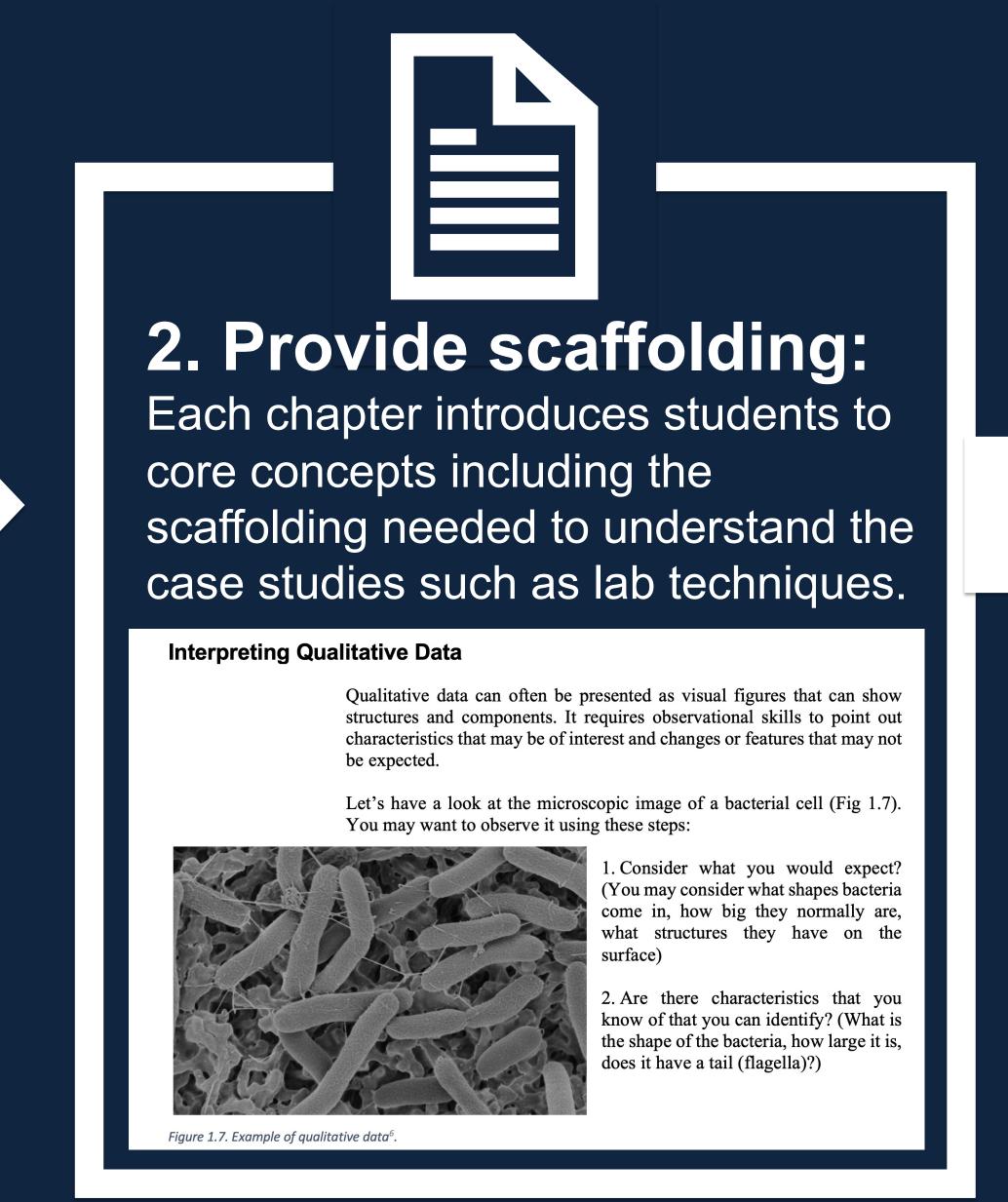
## Case by Case: A Foundations in Microbiology OER

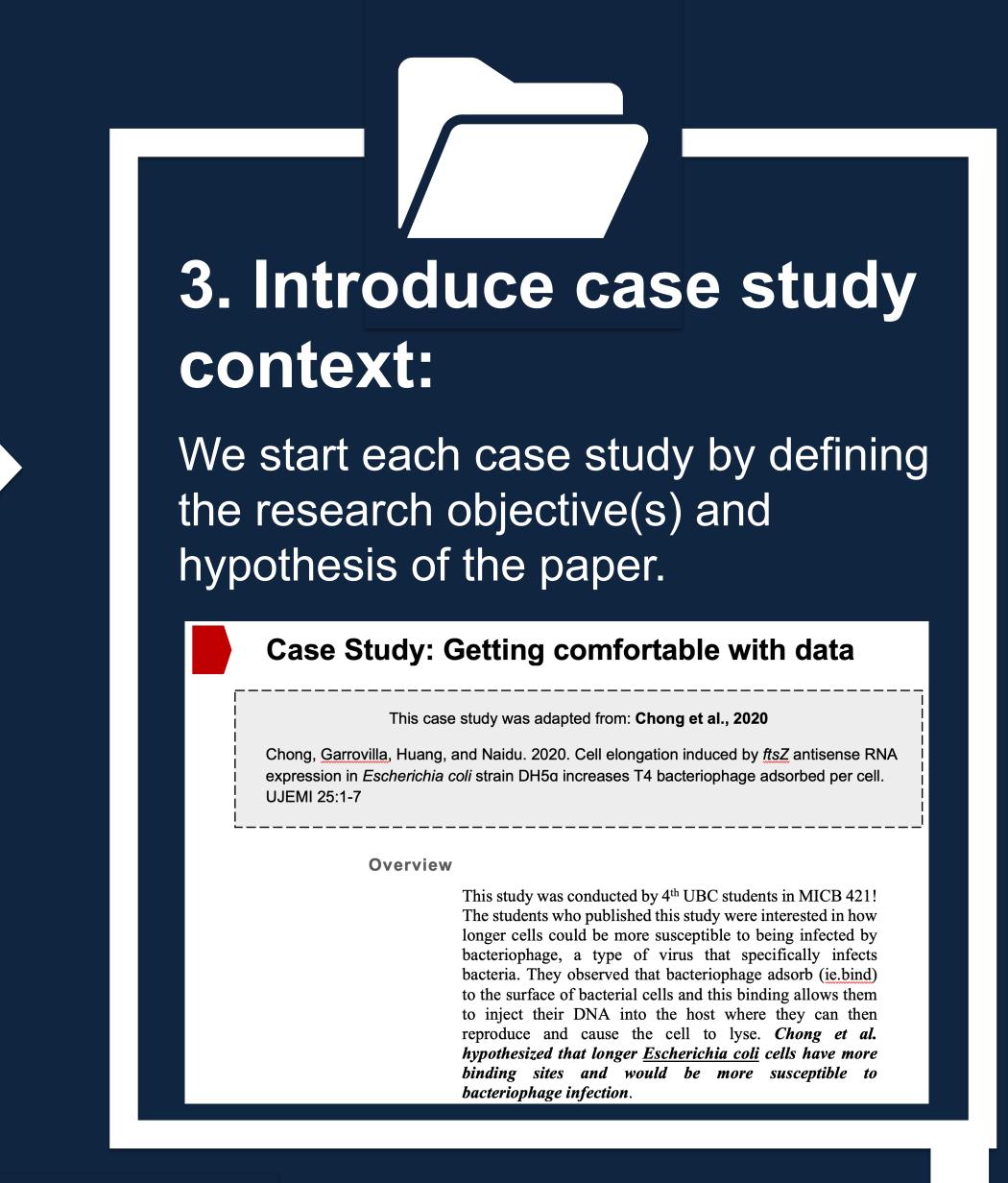
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### Background

In 2022, MICB 201, Introduction to Microbiology, Environmental was transformed MICB 211, into Foundations in Microbiology. Part of this course transformation included the addition of case studies derived from literature. In complement this new course structure, the MICB 211 team built an open educational resource (OER) in the form of an electronic textbook that includes the case studies in order to facilitate a flipped classroom experience.









### in-class components

# 6. Determine how it aligns to the hypothesis and research aims:

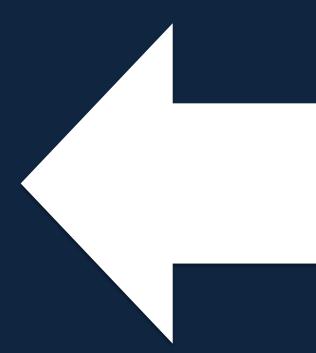
After compiling the takeaways from the figures/tables that students analyze, students define the key conclusions and relate them back to whether they feel it supported or refute the hypothesis or if additional data is required.



#### 5. Discuss in class:

Students read corresponding textbook chapters to prepare for a discussion of the case study in class. The purpose is to define the takeaways for each data figure/table.



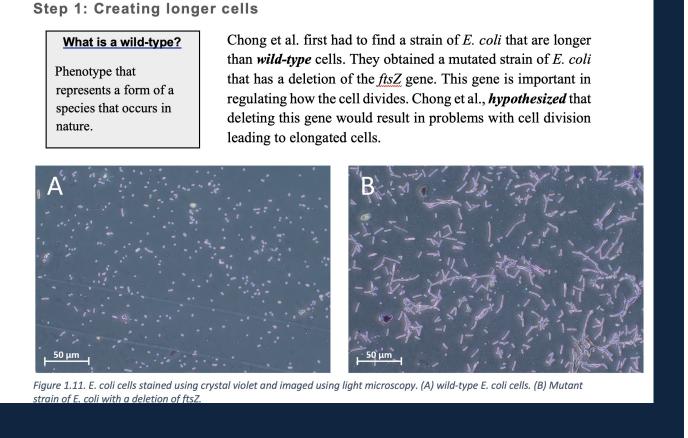


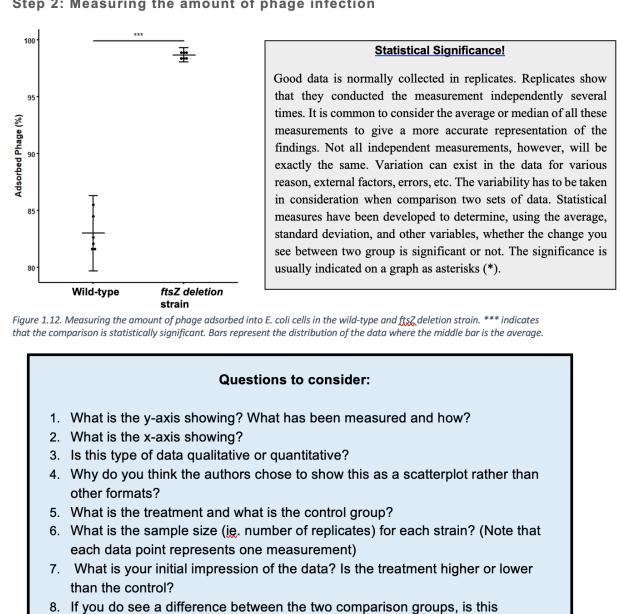
### 4. Analyze data:

Students analyze both qualitative and quantitative data using guiding questions. Students are encouraged to go through the questions before

Step 2: Measuring the amount of phage infection

class.





significance statistically significant? What does that mean to you?

9. Do you agree with the author's original hypothesis?

