

## Chapter 3 Study Guide

### Section 3.1 Cell Theory

**Key Concept:** Cells are the basic unit of life.

#### Vocabulary

cell theory  
cytoplasm

organelle  
prokaryotic cell

eukaryotic cell

**Main Idea:** Early studies led to the development of the cell theory.

For questions 1–5, briefly describe what each of the following scientists did to help develop the cell theory.

1. Hooke:
2. Leeuwenhoek:
3. Schleiden:
4. Schwann:
5. Virchow:
6. What are the three parts of the cell theory?
7. Give two reasons why the cell theory is important.

**Main Idea:** Prokaryotic cells lack a nucleus and most internal structures of eukaryotic cells.

8. List the characteristics of eukaryotic cells.
9. List the characteristics of prokaryotic cells.
10. List the characteristics that both kinds of cells—eukaryotic and prokaryotic—have in common.

#### Vocabulary Check

11. What is cytoplasm?
12. Where do you find organelles?

# Section 3 1 Cell Theory Study Guide

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### Section 3 1 Cell Theory Study Guide:

*Oxford IB Study Guides: Biology for the IB Diploma* Andrew Allott, 2014-10-02 This comprehensive Study Guide reinforces all the key concepts for the 2014 syllabus ensuring students develop a clear understanding of all the crucial topics at SL and HL Breaking concepts down into manageable sections and with diagrams and illustrations to cement understanding exam preparation material is integrated to build student confidence and assessment potential Directly linked to the Oxford Biology Course Book to extend and sharpen comprehension this book supports maximum achievement in the course and assessment Fully comprehensive and matched to the new 2014 syllabus Concise and focused approach simplifies complex ideas building truly confident understanding Clear and explanatory style uses plenty of visuals to make each concept accessible easing comprehension Build a strong foundation of assessment skills strengthening potential with integrated exam questions Develop assessment confidence drawing on thorough assessment support and advice Clear and straightforward language

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research at universities from across the United States and Canada. It was an opportunity to share specific research directions and accomplishments. But more importantly, it was an opportunity to discuss the implications of the basic constraints to solving industry relevant problems in the field of material handling and closely related activities, the efficacy of the approaches being taken at the present time, and the directions believed to be of most value to the industry and to advancing the knowledge and science base of the material handling engineering discipline. The sponsoring organization, the College Industry Council for Material Handling Education, was founded in 1952. The council is composed of college and university educators, material handling equipment manufacturers, distributors, users, and consultants, representatives of the business press, plus professional staff and members of other organizations concerned with material handling education.

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