

# BTEC Level 3 Applied Science Unit 1

## Biology

plasma membrane - answer a microscopic membrane of lipids and proteins (Phospholipid bilayer) that forms the external boundary of the cytoplasm of a cell or encloses a vacuole, and that regulates the passage of molecules in and out of the cytoplasm.

Golgi apparatus - answer A system of membranes that modifies and packages proteins for export by the cell

Vesicle - answer Small membrane-bound sac that functions in moving products into, out of, and within a cell.

Ribosomes - answer site of protein synthesis  
- 70s in prokaryotic cells  
- 80s in eukaryotic cells

Mitochondrion - answer bean-shaped organelle that supplies energy (ATP) during the process of respiration , to the cell and has its own ribosomes and DNA.

Centrioles - answer Cell organelle that aids in cell division in animal cells only

Nucleus - answer the central and most important part of an object, movement, or group, forming the basis for its activity and growth. Contains DNA.

Nucleolus - answer Makes ribosomes

Smooth Endoplasmic Reticulum - answer An endomembrane system where lipids are synthesized, calcium levels are regulated, and toxic substances are broken down.

Rough Endoplasmic Reticulum - answer System of internal membranes within the cytoplasm. Membranes are rough due to the presence of ribosomes. functions in transport of substances such as proteins within the cytoplasm

Lysosomes - answer An organelle containing digestive enzymes (lysozymes)

cell wall - answer A rigid layer of nonliving material that surrounds the cells of plants and some other organisms.

Chloroplasts - answer Site of photosynthesis

## Answers For Biology Science Unit 07 Lesson 02

**Lawrie Ryan,Keith Johnson**

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## Answers For Biology Science Unit 07 Lesson 02 Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Answers For Biology Science Unit 07 Lesson 02**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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