

## Cellular structure



## Cellular structure

- **Cell wall:** provides structural support and protection.
- **Cell membrane:** regulates the movement of substances in and out of the cell.
- **Nucleus:** contains genetic material (DNA) and controls cell activities.
- **Endoplasmic reticulum:** involved in protein synthesis and transport.
- **Mitochondria:** the site of cellular respiration, producing energy (ATP).
- **Golgi apparatus:** processes and packages proteins for transport.
- **Lysosomes:** contain enzymes for breaking down waste materials.

## Cellular structure and function

### Cellular structure

#### 1. Prokaryotic cells

- Lack a nucleus and other membrane-bound organelles.
- DNA is located in the nucleoid region.
- Examples: Bacteria, Archaea.



### Cellular structure

**Prokaryotic cells:** Cells without a nucleus and other membrane-bound organelles. Examples: Bacteria, Archaea.

#### 2. Eukaryotic cells

**Eukaryotic cells:** Cells with a nucleus and other membrane-bound organelles. Examples: Animals, Plants, Fungi, Protists.

#### 3. Animal cells

- Lack a cell wall and chloroplasts.
- Have a nucleus and other organelles.
- Examples: Mammals, Birds, Fish, Invertebrates.

#### 4. Plant cells

- Have a cell wall and chloroplasts.
- Have a nucleus and other organelles.
- Examples: Trees, Grass, Flowers, Fungi.

#### 5. Fungal cells

- Have a cell wall and nucleus.
- Lack chloroplasts.
- Examples: Mushrooms, Yeast, Molds.

#### 6. Protist cells

- Can be unicellular or multicellular.
- Have a nucleus and other organelles.
- Examples: Amoeba, Paramecium, Slime molds.

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**Prokaryotic cells:** Cells without a nucleus and other membrane-bound organelles. Examples: Bacteria, Archaea.

**Eukaryotic cells:** Cells with a nucleus and other membrane-bound organelles. Examples: Animals, Plants, Fungi, Protists.

#### 1. Animal cells

- Lack a cell wall and chloroplasts.
- Have a nucleus and other organelles.
- Examples: Mammals, Birds, Fish, Invertebrates.

#### 2. Plant cells

- Have a cell wall and chloroplasts.
- Have a nucleus and other organelles.
- Examples: Trees, Grass, Flowers, Fungi.

#### 3. Fungal cells

- Have a cell wall and nucleus.
- Lack chloroplasts.
- Examples: Mushrooms, Yeast, Molds.

#### 4. Protist cells

- Can be unicellular or multicellular.
- Have a nucleus and other organelles.
- Examples: Amoeba, Paramecium, Slime molds.



#### 5. Bacterial cells

- Lack a nucleus and other membrane-bound organelles.
- Have a nucleoid and other structures.
- Examples: Bacteria, Archaea.

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# Mcat Preview Guide

**M Woodhall**



## **Mcat Preview Guide:**

Mcat Preview Guide: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Mcat Preview Guide : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mcat Preview Guide : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://staging.conocer.cide.edu/files/publication/fetch.php/hero%20myths%20and%20legends%20of%20britain%20and%20ireland.pdf>

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