

## Science Grade 6 Unit 4: Worksheet Plan 4.2

### Unit 4 \_ The cell

**Learning objective:** Students will be able to use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.

**Q1.** Choose the correct option to fill in the exact location of the following parts.

- In a plant cell, the cell wall is found adjoining the \_\_\_\_\_. ( **cell membrane** / cytoplasm)
- Chromatin is present in the \_\_\_\_\_. ( **nucleoplasm**/ cytoplasm)
- The nucleus of a plant cell is \_\_\_\_\_ ( **marginal** / central) in position.
- Centrosomes are present near the \_\_\_\_\_ ( **nucleus**/ cell membrane) in an animal cell.

**Q2.** Write T for true and F for false. Correct the statements by changing the first or last word(s) only.

- Plant cells have different shapes. **False.**  
**Animal cells have different shapes.**
- The colours imparted by chromoplasts promote pollination. **True**
- The cell membrane is freely permeable. **False**  
**The cell membrane is semipermeable.**
- Centrosomes help in cell division. **True**

**Q3.** Name the following

- Controlling the centre of the cell. **Nucleus**
- Scientist who observed the first living cell . **Antonie van Leeuwenhoek**
- Responsible for transmission of characters. **Chromosomes**
- Provide colour to the fruits. **Chromoplasts**

**Q4.** Differentiate the following

- a. Cell wall and cell membrane

Cell wall	Cell membrane
<ol style="list-style-type: none"><li>It is present outside the cell membrane.</li><li>It is freely permeable.</li><li>Present only in plant cells.</li></ol>	<ol style="list-style-type: none"><li>It is a thin outer membrane of cytoplasm inner to the cell wall.</li><li>It is semi permeable.</li><li>Present in both plant cells and animal cells.</li></ol>

- b. Chromosome and centrosome

Chromosome	Centrosome
Chromosomes are highly condensed coiled chromatin fibres that are present inside the nucleus.	Centrosome is an organelle in the cell that initiates and regulates cell division.

- c. Lysosome and vacuole

# Living By Chemistry Answer Key Unit 4

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## **Living By Chemistry Answer Key Unit 4:**

Living By Chemistry Answer Key Unit 4: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Let's delve into the realm of popular books, exploring the fascinating 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 masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph.

**Uncover the Best :** Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

**Discover the Magic :** 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 compelling 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 brilliant and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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