

## Biology Chapter 6 – Review

Nutrition: taking in useful substances

Photosynthesis: the process by which plants synthesize carbohydrates from raw materials using energy from light



carbon dioxide + water  $\rightarrow$  (sunlight and chlorophyll)  $\rightarrow$  glucose + oxygen

\*\*respiration: glucose + oxygen  $\rightarrow$  carbon dioxide + water + energy

Process:

- 1) Light dependent reactions – water is turned to oxygen (2:1 molecules)
  - Tested through using isotopes of  $\text{O}_2$  for water and carbon dioxide; oxygen contained isotope of oxygen that was used for water
- 2) Light independent reactions – carbon dioxide and water is turned to glucose

Chlorophyll: the pigment that makes plants look green

- Can absorb solar energy, combine carbon dioxide with water to make glucose
- Requires magnesium ions
- Converts light energy to chemical energy

Uses of glucose

For energy:

- For active transport (moving mineral ions to root hairs)
- Building proteins by amino acids
- (energy is released from glucose by respiration)

Stored as starch:

- Lots of glucose molecules are linked to form starch
- They are stored in the leaf; starch molecules are insoluble in water
  - o They are not involved in the chemical equations taking place inside the cells
  - o Do not affect the concentration of the solutions, so water does not enter/leave by osmosis
- Can quickly and easily be broken down to glucose molecules when needed

Changed to sucrose for transport:

- Glucose is changed to sucrose (larger molecules) and it is carried to other parts through phloem tubes
  - o Only leaves make glucose but all parts require it
- Once it reaches its destination, it changed back to glucose and is used in respiration

To make cellulose to build cell walls:

- Hard to be broken down to glucose
  - o Function of the cell wall is to support the cell

Used to make nectar to attract pollinators:

- Plants need insects, birds and bats to help them sexually reproduce

Used to make proteins and other substances:

- For example, chlorophyll (requires magnesium and nitrate ions \*through active transport, which needs energy\*)

# Biology Chapter 6 Study

**SJ Ball**



## **Biology Chapter 6 Study :**

Biology Chapter 6 Study : Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. Biology Chapter 6 Study : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped 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. Biology Chapter 6 Study : 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 captivating 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 spins a tale of resilience, survival, and the transformative power of nature, entrancing 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 brilliant and thrilling 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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