

MENSTRUAL CYCLE LAB

Background Information

Puberty and the Menstrual Cycle

When a human female is born, her ovaries already contain all the immature eggs that will later mature and produce functional eggs during her lifetime. Eggs usually begin to mature between the ages of 12 and 14, when a release of hormones triggers **puberty**, and a young woman reaches sexual maturity. Most commonly, eggs mature every 28 days or so. They usually mature **ONE** at a time, in alternating ovaries. This rhythmic maturation of eggs and of chemical and physical events are called the **menstrual cycle**.

Endocrine Gland	Hormone	Function
 Anterior Pituitary	FSH	• Stimulates follicular growth in ovaries • Stimulates estrogen secretion (from developing follicles)
	LH	• Surge causes ovulation • Results in the formation of a corpus luteum
 Ovaries	Estrogen	• Thickens uterine lining (endometrium) • Inhibits FSH and LH for most of cycle • Stimulates FSH and LH release pre-ovulation
	Progesterone	• Thickens uterine lining (endometrium) • Inhibits FSH and LH

The Pituitary Gland

The pituitary gland is located at the base of the brain and secretes the hormones **FSH** and **LH**. Increasing levels of a hormone, **FSH (follicle stimulating hormone)**, eggs start to mature in a woman's ovary. Each egg matures inside an egg sac, or follicle. When the egg is fully mature, another hormone, **LH (luteinizing hormone)** reaches peak level, causing the follicle to burst and the release of the egg. The process is called ovulation. Tiny microscopic hairs called cilia at the opening to the Fallopian tube will sweep the egg into the tube which leads to the uterus.

- **FSH** stimulates the egg to mature
- **LH** causes the egg to rupture from the ovary in a process called **ovulation**!

The Ovary

The ovary produces the hormones **estrogen** and **progesterone**. As a result of the increasing levels of the hormone **estrogen**, the lining of the uterus has been prepared to receive a fertilized egg by building up its lining with nurturing tissues and blood vessels. After ovulation, the ovary releases the hormone **progesterone**. High levels of **progesterone** to help maintain the uterine lining.

- **Estrogen** builds up the uterine lining
- **Progesterone** maintains the uterine lining

Answers To Menstrual Cycle Lab Living Environment

Tobias Bleicker



Answers To Menstrual Cycle Lab Living Environment:

Answers To Menstrual Cycle Lab Living Environment: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed 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 expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Answers To Menstrual Cycle Lab Living Environment : 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 bestselling 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 wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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