

Biology
The Human Menstrual cycle

Name _____
Date _____ Per _____

Background: The seemingly simple action of conceiving a child in the human race is astounding if you consider the number of events that must occur and the hormonal activity that must synchronize. Therefore, it is easy to understand why the human menstrual cycle is so crucial in the timing and efficiency of the female reproductive system. Without **hormone cycles, feedback mechanisms,** and near perfect timing, this system would not allow a human egg to be fertilized, developing into an embryo and ultimately being delivered as a human baby.



The cycles that are most important are those of four different hormones: **follicle stimulating hormone (FSH), luteinizing hormone (LH), progesterone,** and **estrogen.** These hormones, produced in the pituitary gland and in the ovary, are specifically timed and influence each other's production and repression during the 28-day cycle and make it possible for a female to become pregnant.

Purpose: The purpose of this laboratory experience is:

- to examine the events of the human menstrual cycle with regard to hormone levels, ovarian function, and uterine structure;
- to graph the changing levels of FSH, LH, estrogen, and progesterone during the 28-day cycle;
- to study how hormone feedback levels and mechanisms control a cyclical functioning mechanism.

Materials:

-lab papers	-pens and pencils
-graph paper	-colored pencils (optional)

Procedure:

1. Look at the "Data" portion of this lab, which shows the events of the menstrual cycle. Construct "Graph A" using the data table and the data for the relative levels of FSH and LH released from the pituitary gland.
2. After completing Graph A, construct "Graph B" using the data from the data table for the relative levels of estrogen and progesterone released from the ovary.
3. Make sure to notice that each graph has two different y-axes, one for each of the hormones listed.
4. **Teacher Hint:** When graphing from the left side y-axis, start with data from Day 1, then Day 2, Day 3, ... When graphing from the right side y-axis, start with data from Day 26, then Day 27, Day 28.
5. Compare the data that you graph to the diagram which shows changes in ovarian function and uterine structure and answer the questions.

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Biology The Human Menstrual Cycle

The start of the cycle, day 1, is when bleeding from the vagina begins. This is caused by the loss of the lining of the uterus, with a little blood. This is called menstruation or having a period....

The menstrual cycle - Human reproduction - KS3 Biology ...

The menstrual cycle refers to natural changes that occur in the female reproductive system each month during the reproductive years. The cycle is necessary for the production of eggs and the preparation of the uterus for pregnancy. It involves changes in both the ovaries and the uterus and is controlled by pituitary and ovarian hormones. Day 1 of the cycle is the first day of the menstrual period

22.7: Menstrual Cycle - Biology LibreTexts

During the menstrual cycle, the ruptured ovarian follicle (the corpus luteum) of the ovary produces progesterone, which renders the uterine lining receptive to the implantation of a fertilized ovum. Should this occur, the placenta becomes the main source of progesterone, without which the pregnancy would terminate.

Menstrual cycle | biology | Britannica

The menstrual cycle is the reproductive cycle of female humans and other animals, particularly certain primates (e.g. apes and monkeys), shrews, and bats. 1 The menstrual cycle begins at menarche and ends at menopause. The menstrual cycle is described through the ovarian cycle and the uterine cycle.

Menstrual cycle Definition and Examples - Biology Online ...

The menstrual cycle is a recurring process which takes around 28 days. During the process, the lining of the uterus is prepared for pregnancy. If implantation of the fertilised egg into the uterus...

The menstrual cycle - Reproduction and fertility - AQA ...

Menstrual blood and tissue flow from your uterus through the small opening in your cervix and pass out of your body through your vagina. During the monthly menstrual cycle, the uterus lining builds up to prepare for pregnancy. If you do not get pregnant, estrogen and progesterone hormone levels begin falling. Very low levels of estrogen and progesterone tell your body to begin menstruation.

What is Menstruation and Menstrual Cycle| ScoopsKiller

By A* Biology on November 30, 2016 in The menstrual cycle has four stages Stage 1: Day 1 is when the bleeding starts. The uterus lining breaks down and is released.

The menstrual cycle has four stages • A* Biology

Although the period of the human menstrual cycle can vary from 20 to 35 days, the average cycle lasts for 28 days. During this time, the female reproductive system carries out the processes of the menstrual cycle, which occurs in phases. The menstrual cycle begins in females at puberty, which takes place between the ages of 10 and 16.

Period of the Human Menstrual Cycle - The Physics Factbook

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Biology Lab Stages Of The Human Menstrual Cycle Answers

LAB . STAGES OF THE HUMAN MENSTRUAL CYCLE. Name ____ Regents Biology 3 of 15 Adapted by Kim B. Foglia www.ExploreBiology.com ©2008 TABLE 1. HORMONES OF THE HUMAN MENSTRUAL CYCLE

Answer Key For Stages Of The Human Menstrual Cycle ...

It is also known as menstrual cycle, also known as endometrial cycle; It occurs from puberty to menopause; It is characterized by loss of vaginal blood (breaking of endometrium wall of uterus) The cycle is under Influenced of hormones secreted by pituitary gland (FSH and LH), and ovary (progesterone and oestrogen). Complete in 3 phase

Ovarian cycle-Menstrual Cycle - Online Biology Notes

The menstrual cycle is the process of discharge of blood and other things from the vagina of a woman every month from puberty to menopause excluding pregnancy. It is a natural periodical process that brings changes in the female reproductive system which is responsible for the pregnancy.

Menstrual Cycle- definition, hormones, phases, diagram

Stages of Menstrual Cycle? 12 Biology. 11 October 2020 My CBSE Notes Leave a comment. Notes Slider. 1. Menstrual Cycle: What is the role of Oestrogen, Progesterone, LH, and FSH? 2. Menstrual Cycle: What is the Menstrual Cycle and Menarche? ...

What is the Menstrual Cycle? Menarche? Role of Oestrogen ...

Find my revision workbooks here: <https://www.freesciencelessons.co.uk/workbooks> In this video, we look at how hormones are involved in the menstrual cycle. D...

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Biology Lab Stages Of The Human Menstrual Cycle Answers

Hormones do many things in the body, two very important roles are controlling puberty and the menstrual cycle. Learn how these work and which hormones are in...

GCSE Biology - The Menstrual Cycle & Puberty #43 - YouTube

The Ovarian Cycle and the Menstrual Cycle The ovarian cycle governs the preparation of endocrine tissues and release of eggs, while the menstrual cycle governs the preparation and maintenance of the uterine lining. These cycles occur concurrently and are coordinated over a 22-32 day cycle, with an average length of 28 days.

The Ovarian Cycle, the Menstrual Cycle, and Menopause ...

STAGES OF THE HUMAN 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

LAB . STAGES OF THE HUMAN MENSTRUAL CYCLE - Explore Biology

It is the reproductive cycle that produces eggs for fertilisation. During the menstrual cycle the uterus (endometrium) prepares itself for implantation of a fertilised egg, if this does not occur the uterine lining is shed from the body; this is known as menstruation or a " period ". On average the menstrual cycle lasts between 28-35 days.

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