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| **GRADE 10**  **DETAILED LESSON PLAN** | **School** | **CAMALEY NATIONAL HIGH SCHOOL** | **Grade Level** | **10** |
| **Student-Teacher** | **KITZ CERWIN S. RAMIREZ** | **Learning Areas** | **SCIENCE** |
| **Teaching Dates and Time** | **11;00-12;00 (Monday-Friday)**  **2:00-3:00 (March 11,2024)** | **Quarter** | **3rd Quarter** |

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| **I. OBJECTIVES** |  | | |
| **A. Content Standard** | The learners demonstrate an understanding of how feedback mechanisms coordinated by the endocrine system. | | |
| **B. Performance Standard** |  | | |
| **C. Learning Competencies/Objectives** | Describe how endocrine system coordinates and regulates these feedback mechanisms to maintain homeostasis. **(S10LT-IIIc-36)**  **Specific Objectives:** a.) Define and Label the structures of the endocrine system and its function. b.) Determine the different glands and hormones that belongs to endocrine system and its location. c.) Explaining by the endocrine system interacts with other body systems, such as the nervous system. | | |
| **II. CONTENT** | **Coordinated Functions of the Nervous, Endocrine and Respiratory Systems (THE ENDOCRINE SYSTEM)** | | |
| **III. LEARNING RESOURCES** |  | | |
| **A. Instructional Materials** | * Slide presentation * Charts and Illustration | | |
| **B. References** |  | | |
| 1. **Teacher`s Guide pages** |  | | |
| 1. **Learner`s Materials pages** | * Science 10 LM pp.247-254 | | |
| 1. **Textbook pages** |  | | |
| 1. **Additional Learning Materials** |  | | |
| **C. Other Learning Resource** |  | | |
| **D. Science Processes** | * Analyzing, Comparing, Interpreting, and Observing | | |
| **E. Values Integration** | * Active Participation, Curiosity, Decision-Making, Keen observer, and Open-Mindedness | | |
| **IV. PROCEDURES** |  | **TEACHER** | **STUDENT** |
| 1. **Reviewing Previous lesson or presenting a new lesson.** | **ELICIT** | **Preliminary activities**   1. **Prayer**   May I request everyone to all stand and let us feel the presence of the lord.  Class president kindly lead the prayer  Good morning class*!*  **How are you today?**  Okay That’s great. I'm glad that all of you are fine and no one is sick*.*   1. **Classroom management**   Before you take your seats, kindly pick up the pieces of trash under your chair and also arrange yourself into alphabetical.   1. **Checking of attendance**   Who’s assign secretary of this section? Kindly check the attendance of your classmates. However, I will call your name to know you and familiarize your name  **Is there any absent today?**  Very good! I'm glad that all of you are present today*.*  Before we proceed to our new lesson, may we have a short recap about our lesson yesterday?  What was our last discussion all about?    Very good! Do you have any questions for that?  Very Good that’s right class! | **(The students will stand)**  **(The students bow their heads and pray)**  Good morning Sir Ramirez,  Were fine and feel better Sir.  None sir    (The student will pick up the pieces of trash under their chairs and arrange their chairs to their respective arrangement***)***  Yes Sir, I’m the secretary.  None Sir, all of us are present today.  Okay sir  We discussed about the Effects of Hormones in the Body  Hormones affect various processes in the body as they regulate and balance the functioning of organs, tissues and cells, Hormones have a great impact on your growth, appearance, emotions, and reproductive functions.  None sir! |
| 1. **Establishing a purpose** | **ENGAGE** | Now let’s play the game! |  |
| 1. **Presenting examples/instances of the lesson** | Based on the game that we played do you have any idea on what our topic for will be today?  That’s correct! But specifically, our topic for today is all about the Male and Female Reproductive System.   Do you have any idea on what is Male and Female Reproductive System?  Very Good! It is essential in regulating growth and development, metabolism, as well as reproductive processes and mood.  Very Good! Are there any questions? | Our topic for today is all about the Male and Female Reproductive System.  Yes Sir.  The male reproductive system and the female reproductive system both are need for reproduction. Humans, like other organisms, pass some characteristics of themselves to the next generation. We do this through our genes, the special carriers of human traits. |
| 1. **Discussing new concepts and practicing new skills #1** | **EXPLORE** | The students will play “Word Hunt “  **Activity 1** Directions: Search up, forward, backward, and on the diagonal, to find the hidden words. | Ovulation, Uterus. testosterone, scrotum, sperm egg, semen, fertilization, sperm cell, embryo, zygote, fallopian tubes, estrogen |
| 1. **Discussion new concepts and practicing new skills # 2** | **Activity 2:** Direction: Study each picture and draw the male and female reproductive system. Write down the parts and according to its function.  Example:  C:\Users\kr677\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\14033343.tmp | **Male Reproductive System:**   1. **Testes:** Located in the scrotum, they produce sperm and testosterone. 2. **Scrotum:** A sac of skin that holds the testes, regulating their temperature for optimal sperm production. 3. **Epididymis:** A coiled tube where sperm mature and are stored. 4. **Vas Deferens:** Tube that carries mature sperm from the epididymis to the ejaculatory duct. 5. **Seminal Vesicles:** Glands that produce seminal fluid, which nourishes and transports sperm. 6. **Prostate Gland:** Gland that produces a milky fluid that contributes to semen volume. 7. **Bulbourethral Glands:** Glands that produce a clear fluid that cleanses and lubricates the urethra. 8. **Penis:** The external sexual organ, used for sexual intercourse and urination.   **Female Reproductive System:**   1. **Ovaries:** Paired organs that produce eggs (ova) and female sex hormones, estrogen, and progesterone. 2. **Fallopian Tubes:** Also known as oviducts, they transport eggs from the ovaries to the uterus. Fertilization typically occurs in the fallopian tubes. 3. **Uterus:** A pear-shaped organ where a fertilized egg implants and develops into a fetus during pregnancy. 4. **Cervix:** The lower part of the uterus that connects to the vagina. It allows the passage of menstrual blood and serves as the entrance to the uterus. 5. **Vagina:** A muscular tube that connects the external genitals to the uterus. It also serves as the birth canal during childbirth. 6. **Clitoris:** A small, sensitive organ located at the top of the vulva. It contains nerve endings and is involved in sexual arousal. 7. **Labia:** The outer and inner folds of skin surrounding the vaginal and urethral openings. They protect the vaginal and urethral openings and play a role in sexual arousal and lubrication. |
| 1. **Developing mastery (leads to Formative Assessment)** | **EXPLAIN** | C:\Users\kr677\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\5B357C1A.tmpNow, let’s study the different male and female reproductive parts and its functions.   (The teacher will post the table list of the of all the parts and its functions.)  **What is Male and Female Reproductive System.** | The male and female reproductive systems are anatomical systems within the human body responsible for the production of gametes (sperm and eggs) and facilitating fertilization, leading to reproduction.  **Male Reproductive System:** The male reproductive system includes organs such as the testes, scrotum, epididymis, vas deferens, seminal vesicles, prostate gland, bulbourethral glands, and penis. Its primary function is to produce sperm and deliver it to the female reproductive system during sexual intercourse. The male reproductive system also produces hormones, particularly testosterone, which is responsible for the development of male secondary sexual characteristics and the maintenance of reproductive tissues.  **Female Reproductive System:** The female reproductive system consists of organs such as the ovaries, fallopian tubes, uterus, cervix, vagina, clitoris, and labia. Its primary function is to produce eggs (ova), provide a suitable environment for fertilization, nurture a developing fetus during pregnancy, and give birth. The female reproductive system also produces hormones, including estrogen and progesterone, which regulate the menstrual cycle, support pregnancy, and maintain female secondary sexual characteristics.  In summary, while both systems have distinct structures and functions, they work together during sexual reproduction to facilitate the fertilization and development of offspring.Top of Form |
| 1. **Finding practical applications of concepts and skill in daily living** | **ELABORATE** | Now that we our done with our lesson I’ll prepared questions that I will going to ask  What are the topic we tackled all about? | Sir! Male and Female Reproductive System |
| 1. **Making Generalization and abstraction about the lesson** | **ELABORATE** | Now, let’s look back, what is main is the main role of hormones in female and male reproductive systems?    Very good!  Excellent! I think you are all now ready for the quiz. | Hormones can play an important role in both male and female reproductive systems. The pituitary gland controls the functions of both the testes and the ovaries. These hormones keep the reproductive system properly functioning. |
| 1. **Evaluating Learning** | **EVALUATE** | Let's evaluate what you've gained in understanding about Male and Female Reproductive Systems today.  **SHORT QUIZ**  1.What is the primary male reproductive organ responsible for producing sperm?  A) Epididymis B) Vas deferens C) Testes D) Prostate gland  2.What is the primary function of the ovaries in the female reproductive system?  A) Production of eggs (ova)  B) Secretion of estrogen and progesterone  C) Nourishment of the developing embryo  D) Regulation of menstrual cycle  3.Where does sperm mature and gain motility before ejaculation?  A) Epididymis B) Seminal vesicles C) Prostate gland  D) Bulbourethral gland   1. 4.Which structure connects the uterus to the vagina and serves as the passageway for sperm during intercourse?   A) Ovary B. Cervix) C) Fallopian tube D) Endometrium   1. 5.Which gland produces the largest portion of semen and secretes a fluid rich in fructose to nourish sperm?   A) Epididymis B) Seminal vesicles C) Prostate gland D) Cowper's gland   1. 6.What is the name of the muscular organ where a fertilized egg implants and develops during pregnancy?   A) Ovary B) Fallopian tube C) Uterus D) Cervix  Which part of the male reproductive system secretes a fluid that helps to neutralize acidity in the urethra and enhance sperm motility?  A) Prostate gland B) Cowper's gland C) Seminal vesicles D) Vas deferens  Which hormone is primarily responsible for the development and maintenance of female secondary sexual characteristics?  A) Estrogen B) Progesterone C) Follicle-stimulating hormone (FSH)  D) Luteinizing hormone (LH)  9. What is the name of the tube-like structure that carries sperm from the epididymis to the urethra?  A) Vas deferens B) Seminiferous tubule) Ejaculatory duct  D) Seminal vesicle   1. 10.Where does fertilization typically occur in the female reproductive system?   A) Ovary B) Fallopian tube C) Uterus D) Vagina | 1.C testes  2. A) Production of eggs (ova)  3. A) Epididymis  4.B. Cervix  5.B) Seminal vesicles  6.C) Uterus  7. A) Prostate gland  8, A) Estrogen  9. A) Vas deferens  10. B) Fallopian tube |
| 1. **Extending Learning/Additional activities for application or remediation** | **EXTEND** | ASSIGNMENT: Draw and Label the parts and functions of Male and Female Reproductive System? |  |
| **V. REMARKS** |  |  | |
| **VI. REFLECTION** |  |  | |
| 1. **No. of learners who earned 80% in the evaluation** |  |  | |
| 1. **No. of Learners who require additional activities for remediation** |  |  | |
| 1. **Did the Remedial lessons work? No. of learners who have caught up with the lesson** |  |  | |
| 1. **No. of Learners who continue to require remediation** |  |  | |
| 1. **Which of my teaching strategies work well? Why did this work?** |  |  | |
| 1. **What difficulties did I encounter which my principal or supervisor can help me solve?** |  |  | |
| 1. **What innovation or localized materials did I use/discover which I wish to share with other teachers?** |  |  | |

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 Practice Teacher Cooperating Teacher