LEARNER OUTCOME² W-5.3:
Identify the basic components of the human reproductive system, and describe the basic functions of the various components; e.g., fertilization, conception.

MATERIALS:
1. POSTERS: Male Anatomy Definitions
2. CARDS: Male Anatomy
3. HANDOUT: Male Reproductive System
4. ANSWER KEY: Male Reproductive System

INTRODUCTION:
This lesson provides students with information about the male reproductive system.

APPROACHES/STRATEGIES:
A. GROUND RULES (5-10 min)
Ensure ground rules are established before beginning this lesson. For classes that have already established ground rules, quickly reviewing them can promote a successful lesson.

B. “Anatomy and Physiology Crossword Puzzle Follow Up (5-10 min)
1. Collect the handout: Anatomy and Physiology Crossword Puzzle that students completed for homework.

C. Male Anatomy Matching Game (20 min)
_Students identify the basic components of the male human reproductive system, and can describe the basic functions of the various components_
GRADE 5 ANATOMY & PHYSIOLOGY LESSON 2

1. Display the Male Anatomy Definitions posters around the room.

2. Divide students into two teams.

3. Distribute the Male Anatomy cards to each team. (Each set should be on a different colour paper.)

4. Have teams decide under which definition each word belongs and post the words on the appropriate poster.

5. Distribute the Male Anatomy handout and ask the students to fill in the blanks for each component of the reproductive system during the review.

6. Review each team’s responses referring to the Male Anatomy answer key and the following guidelines:

External Genitals:
Penis
- The male external sex organ.
- Semen and urine are discharged from the penis.
- It is made up of spongy material that fills up with extra blood (becomes erect) when sexually aroused.
- There is no bone in the penis.
- The penis continues to grow as does the rest of the body. Size varies from person to person.

Foreskin
- The skin on the end of the penis that retracts during an erection.
- This skin may be partially removed in a procedure called circumcision.
- Boys who have not been circumcised should cleanse beneath the foreskin of the penis regularly. It is important not to pull the foreskin back if it is still attached to the head of the penis. It will disengage naturally.

Circumcision
- A procedure to remove the foreskin from the penis conducted by a doctor.
- It is usually done soon after birth.
- Many boys are circumcised and many are not. It doesn’t affect the function of the penis.

You may want to make the answer key into a slide and use it as a visual aid during the discussion.

It may be easiest to break the review into three main topics: external genitals, internal reproductive system, and how the reproductive system functions.

Interspersing direct instruction with questions helps the students to remain engaged and stay focused on the lesson.
Scrotum
- The sac that holds the testicles.
- The testicles have to be kept at a certain temperature just below body temperature in order to produce healthy sperm. The scrotum pulls the testicles closer to the body if it is cold and lowers away from the body if it is hot.

Anus
- The opening at the end of the digestive tract where feces leaves the body.
- It is not part of the reproductive system, but is part of the digestive system.

Internal Reproductive System:
Testicles
- The male sex glands.
- They are held in the scrotum.
- They are on the outside of the body so that they can stay cooler than body temperature for healthy sperm production.
- It is normal for one to hang lower.
- This is a very sensitive area of the body. It is important to protect the testicles during contact sports, etc.

Vas Deferens
- This is a narrow tube that carries sperm from the testicles to the urethra.

Seminal Vesicles
- Two small pouches behind the bladder that produce and store seminal fluid.
- This fluid mixes with sperm and other fluid to produce semen.

Urethra
- Urine and semen pass through this tube to the outside of the body.
- Urine and semen cannot come out at the same time. There are two branches to the urethra, one from the bladder and the other from the vas deferens. When the penis is ready to release semen, a valve blocks off the branch to the bladder so urine cannot escape. Similar to the difference between swallowing and breathing. Air goes to the lungs and food goes to the stomach but both pass through the esophagus.

Circumcision is the cutting away of the foreskin, the skin that covers the head of the penis. The surgery is usually performed when a baby is only a few days old and is elective, which means the parents have made a choice to have their baby circumcised. In some cultures, the procedure is performed later in life. The choice is usually based upon religious, cultural or traditional beliefs. There is some evidence that a circumcised penis is more hygienic. Uncircumcised males simply need to wash regularly making sure to pull back the foreskin to clean the head of the penis.
Bladder
- The sac that holds the urine produced by the kidney.
- It is not part of the reproductive system, but the urinary system.

Female circumcision known as Female Genital Mutilation (FGM) compromises all procedures that involve partial or total removal of the external female genitalia, or other injury to the female genital organs for non-medical reasons. FGM has no health benefits and it harms girls and women in many ways. It involves removing and damaging healthy and normal female genital tissue, and interferes with the natural functions of girls' and women's bodies. The reasons for FGM include a mix of cultural, religious and social factors within families and communities. FGM is recognized internationally as a violation of the human rights of girls and women. FGM is an extremely culturally sensitive topic, be respectful and take caution when addressing FGM. For more information please visit: http://www.who.int/mediacentre/factsheets/fs241/en/index.html

How the Reproductive System Functions:

Erection
- The brain can send a message to the penis causing it to become larger, longer and firmer. It will stand out from the body.
- Although boys may experience erections when they are younger, they seem to occur more often and “out of the blue” during puberty.
- Erections are a normal process of growing up.
- They can happen when you least expect them (first thing in the morning, during sleep, vibrations from riding a bicycle, sexual arousal).
- Erections can go away by themselves or after ejaculation.

Sperm
- The male reproductive cell.
- These cells are very small (over 300 million in 5 ml of semen).
- Millions are made every day in the testicles.
- The sperm travel up the vas deferens and mix with fluid from the seminal vesicle and prostate to form white sticky fluid called semen.

Semen
- The combination of sperm and fluid from the seminal vesicle and prostate that is ejaculated from the penis.
Ejaculation

- Although boys may experience erections at an early age, they are not able to ejaculate until their bodies begin producing sperm and semen during puberty.
- First ejaculation normally occurs as early as 13 or as late as 17 years of age.
- Wet dreams (when a boy gets an erection then ejaculates while he is sleeping) begin during puberty. This is the body’s way of adapting to the commencement of sperm and semen production. Some boys have wet dreams and others do not. Wet dreams end later in puberty once the body is used to producing sperm and semen.

C. Class Discussion

Students review their knowledge of the male reproductive system, develop resiliency skills around male anatomy issues, and identify support people.

1. What are some of the good things about being a male?
   - Encourage students to provide appropriate comments.
2. What are some reasons a boy might get an erection?
   - Sexual arousal
   - Excitement
   - Vibrations
   - Nocturnal emission
3. How do you think a boy might feel if he gets an unwanted erection or has a nocturnal emission?
   - Embarrassed
   - Shy
   - Excited
4. What are some ways to cope with an unwanted erection?
   - Focus on something else until it goes away
   - Sit down
   - Put your hands in your pockets to try to hide it
   - Wear baggy pants if it keeps happening
   - Remember that it is probably more noticeable to you than to anyone else and this is a normal part of growing up.
5. What are some ways to cope with a wet dream?
   - Change your sheets
   - Wash your pyjamas or underwear
   - Nocturnal emissions are a normal and healthy part of growing up.
6. If you have questions about the male anatomy and/or puberty changes, who can you ask?
   - Parent
   - Trusted adult
   - Nurse
   - Doctor

QUESTION BOX (10 min)
Have students fill out questions and address them next class.

SELF REFLECTION
During the lesson, were:
   - Ground rules being followed?
   - Good practices established regarding group work and discussion?

What will you change for future classes with this group?
What will you change for future use of this lesson?

STUDENT ASSESSMENT
During the lesson, did students:

Knowledge:
   - Identify the basic components of the male human reproductive system?
   - Become familiarized with appropriate terms for male reproductive anatomy?
   - Describe the basic functions of the various components of the male reproductive system?

Skills:
   - Participate in class discussion and exemplify listening and appropriate speaking skills?
   - Develop coping skills around male puberty issues?
   - Identify support people?

Attitudes:
   - Demonstrate awareness and understanding of the changes that occur during puberty?
1. Adapted from: Canadian Federation for Sexual Health. (2005). *Beyond the basics: A sourcebook on sexuality and reproductive health education*. Ottawa: Author


The opening at the end of the digestive tract where feces leaves the body.
A sac that holds the urine produced in the kidney.
A procedure to remove the foreskin from the penis.
Discharge or release of semen from the penis.
When the penis becomes larger, longer and firmer because of sexual arousal.
The skin of the penis tip that is partially removed during circumcision.
The male external sex organ from which semen and urine are discharged. It can become erect when sexually aroused.
External sac containing the testicles (covers and protects the male sex organs).
A thick fluid containing sperm.
Where semen is stored.
Male reproductive cell.
Sperm producing glands/organs.
Urine and semen pass through this tube to the outside of the body.
Narrow tubes that carry sperm from the testicles to the urethra.
Anus
Bladder
Circumcision
Ejaculation
Erection
Foreskin
Penis
Scrotum
Semen
Seminal Vesicles
Sperm
Testicles
Urethra
Vas Deferens
Male Reproductive System

1. 
2. 
3. 
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12.

Uncircumcised Penis

Male Reproductive System

- Vas Deferens
- Bladder
- Seminal Vesicle
- Prostate Gland
- Rectum
- Anus
- Epididymis
- Testicle (Testis)
- Urethra
- Penis
- Glans
- Scrotum

Uncircumsized Penis