SUBJECT: Science

UNIT: Y7 Human Reproduction



While you were away.

Lesson 1: Adolescence

- 1. What is adolescence?
- 2. What is puberty?
- 3. Name the hormones involved in puberty.
- 4. Describe some changes that occur during puberty.

Lesson 2: Reproductive system

- 1. What is the role of the reproductive system?
- 2. Name the male and female sex cells
- 3. Name two parts of the male reproductive system
- 4. Name two parts of the female reproductive system

Lesson 3: Menstrual cycle

- 1. How long does the menstrual cycle last?
- 2. What happens between day 1-5?
- 3. When does ovulation occur?
- 4. What happens if an egg is not fertilised?

Lesson 4: Fertilisation and implantation

- 1. What happens during sexual intercourse?
- 2. Where does the sperm cell meet the egg cell?
- 3. What is fertilisation?
- 4. What is an embryo?

Lesson 5: Developing foetus

- 1. How many weeks is a human pregnancy?
- 2. How many weeks is the foetus fully formed?

Lesson 6: Contraception

- 1. What is contraception?
- 2. Give one example of a hormonal contraceptive.
- 3. Give one example of a non-hormonal contraceptive.

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condoms and diaphragms, or surgical

methods like sterilisation.

Human Reproductive System, Key Vocabulary **Ambitious** Male and female reproductive systems allow human Embryo Vocabulary reproduction. Fertilisation occurs when the male and female An unborn offspring in sex cells - sperm and egg, join to form an embryo. An Egg, Sperm, the early stages of embryo develops into an unborn baby in the uterus during Fertilisation development pregnancy. Hormone A chemical that is Male reproductive system Adolescence & Puberty produced naturally Penis – allows urines and semen to Puberty is a period of time in a person's life within the body and is pass out of the male's body when they become sexually mature. Puberty released into the is the physical changes that affect males and Testis – Produces sperm cells and bloodstream to send females differently. Adolescence is the releases the male sex hormone message to other physical and emotional changes that occur. testosterone parts of the body These changes happen due to the hormones Urethra – A tube that carries urine Egg cell oestrogen and testosterone. and semen. It has a ring of muscle The female sex cell, Changes that affect both males and females: to keep these fluids separate produced by the growth of pubic hair, growth of underarm hair, Scrotum – A bag of skin that growth spurts, acne or occasional pimples. ovaries contains the testes body odour becomes stronger, and mood Sperm cell Gland – produces fluids that mix The made sex cell, with the sperm to make semen produced by the **Fertilisation** Sperm duct – Carries sperm cells testes 1. During sexual intercourse, semen from the tests to the urethra Menstruation containing sperm is ejaculated from the The process of penis into the vagina Female reproductive system releasing blood and 2. Sperm cells travel through the female Vagina – a muscular ring that leads reproductive system to meet an egg tissue from the lining from the cervix to the outside of the cell in the oviduct of the uterus as part bodv 3. One sperm cell penetrates the egg cell of the menstrual cycle Cervix – A ring of muscle at the lower membrane. The nucleus of the sperm end of the uterus. This keeps the baby cell fuses with the nucleus of the egg in place during pregnancy cell. This is called fertilisation Ovary - Contains hundreds of The menstrual cycle 4. The resultant zygote divides several undeveloped egg cells. Every month, an The menstrual cycle is a times to form a call of cells called an egg matures and is released process that occurs in the embryo which implants in the uterus Uterus – where the baby develops female reproductive lining during pregnancy system. The average Oviduct - carries egg cells from the length of the menstrual ovaries to the uterus cycle is 28 days. Uterus lining – a blood-rich later of Day 1 -5: The uterus **Developing foetus** tissue in which an embryo implants. lining breaks down and 4-6 The embryo is about 6mm ling. The This tissue is lost each month during passes out of the vagina. heart and other organs begin to form menstruation This is known as 8-9 Arms begin to grow and toes and menstruation or 'having a evelids being to form period'. 12 The foetus is now fully formed and all Contraception Day 5 – 14: The uterus the organs, muscles and bones are in lining starts to build up place. It is now around 60mm long and Contraception is a method or technique again. An egg cell starts starts to move around used to prevent pregnancy as a result of to mature in the ovary. 20 – 24 The foetus is around 250mm sexual intercourse. Hormonal Day 14: An egg cell is long. It has begun to kick and can hear contraceptives contain hormones that released from the ovary. sounds outside the uterus. are similar to those normally produced This is called ovulation. 28 The baby has hair and can open its as part of the menstrual cycle. Examples Day 14 – 28: the uterus eves of hormonal contraceptives include the lining remains thick. 37 - 40 The baby is fully developed and contraceptive pill, implant and injection. During this time, the egg ready to be born. It is now around Non-hormonal contraceptives do not may be fertilised by a 520mm long. IT rotates so its head is involve the use of hormones. These sperm cell. pointing downwards include barrier methods, such as