

Monday 2nd June 2025

Year 5 National Curriculum for Science

Dear Parents and Carers,

We are writing to inform you about the Science curriculum for Year 5 during Term Six. This term, our focus will be on The Human Body: Hormones and Reproduction, a key unit within the statutory National Curriculum for Science.

Curriculum Content

Pupils will be learning about:

Human Growth and Development

- The main stages of human life: infancy, childhood, adolescence, adulthood, and old age.

Puberty and Hormonal Changes

- The role of glands and hormones in initiating puberty.
- Physical and emotional changes during puberty, including:
 - Growth spurts
 - Hair growth
 - Breast development
 - Voice changes

The Human Reproductive System

- Female anatomy:** ovaries, fallopian tubes, uterus, vagina, and menstruation.
- Male anatomy:** testes, scrotum, penis, urethra, and semen.

Sexual Reproduction

- The biological process of reproduction, including:
 - Sexual intercourse
 - Fertilisation
 - Implantation in the uterus
 - Pregnancy and embryo development
 - Birth of a newborn

Please find our scheme of learning from our Cabot Learning Federation curriculum below:

Biology: Human Body: Hormones & Reproduction		During <u>puberty</u> human bodies change as part of their <u>life cycle</u> . There is a <u>growth</u> spurt, <u>hair</u> grows, <u>breasts</u> develop, and <u>voices</u> change. The reproductive <u>system</u> develops so that babies can be made.		
Human growth stages • Puberty: - Glands and hormones, growth spurt, hair growth, breasts, voice change The reproductive system: • Females: ovaries, (fallopian tubes), uterus, vagina, menstruation • Males: testes, (scrotum), penis, (urethra), semen • Sexual reproduction: intercourse, fertilisation, implantation in the uterus, pregnancy, embryo, newborn Skills Focus: Conclude Use scientific language in discussions.		• Describe what happens during puberty • Describe how the reproductive system is different in males and females • Give a basic description of sexual reproduction and what happens	Life cycle, baby, child, teenager, adolescent, adult, human, reproduce, reproduction, puberty, grow, growth, change, hormones, adrenal glands, pituitary gland, pancreas, insulin, male reproductive system, penis, testes, semen, erection, ejaculation, female reproductive system, vagina, womb, menstrual cycle, menstruation, period, blood, bleed, womb lining, ovary, ovaries, egg, sex, sexual intercourse, fertilisation, pregnancy, birth,	<i>If the misconception arises ensure children understand that:</i> • fertilisation happens in the tube, not the womb or vagina

**** Refer to RSE delivery before teaching *****

Why This Learning Is Important

This unit is part of the statutory science programme of study for Year 5, which requires pupils to describe the changes as humans develop to old age. It provides essential knowledge about human biology and prepares children for the physical and emotional changes they will experience during puberty.

Teaching this content at this stage:

- Ensures pupils receive accurate, age-appropriate scientific information.
- Supports personal development and body awareness.
- Encourages respectful discussion and curiosity in a safe, supportive environment.

Support and Questions

We understand that this topic may prompt questions from both pupils and parents. If you would like to discuss any aspect of the curriculum or how it will be delivered, please feel free to contact:

- Mr Allen
- Mr Chapman
- Mrs Thompson, our Science Lead

Thank you for your continued support in your child's learning.

Kind regards,

The Year 5 Teaching Team