Grade 10 Human and Plant Reproduction Unit Topics
Criterion A Summative Assessment

Traffic Light: Use the colors red, yellow and green to identify how you feel about the following topics. Highlight topics in GREEN if you feel comfortable with it, YELLOW if you have some doubts about it and RED if you have no idea and need to seek help. Use the Grade 10 Human and Plant Reproduction libguide to help you study:

Scientist Spotlight
- August Weismann
- John Maynard Smith
- Magnus Hirschfeld
- Alfred Kinsey

Plant Reproduction:
- Asexual reproduction: advantages, disadvantages, binary fission; budding, fragmentation, parthenogenesis
- Sexual reproduction: advantages, disadvantages
- Plant reproduction: spores, vegetative propagation
- Self vs. Cross pollination: process, advantages, disadvantages
- Flowers: parts and function
- Wind (seed dispersal) vs. insect pollination (bees)
- Pollination vs. fertilization vs. germination

Animal Reproduction:
- Mating Rituals
- External vs. Internal Fertilization: advantages vs. disadvantages
- Importance of Egg structure
- Hermaphroditic species
- Sexual Reproduction: advantages, disadvantages

Human Reproduction:
- Female reproductive system: Amniotic Sac, Placenta, Umbilical Cord: structure and function
- Male reproductive system: testes, urethra, penis; structure and function
- Egg cell vs. Sperm cell: structure, function
- Fertilization: change in the zona pellucida
- Female hormones: function of FSH, LH, Estrogen, Progesterone
- Male hormones: function of FSH, LH, Testosterone
- Menstrual Cycle: ovulation, changes in hormone levels
- IVF, Contraception, STIs, HIV
- Puberty
Methods of birth control in humans
- Natural birth control: monitoring body temperature and thickness of cervical mucus
- Barrier methods: male condom, female condom and diaphragm
- Chemical method: IUD, IUS, contraceptive pill, contraceptive implant, progesterone injections
- Surgery: vasectomy

Sexual transmitted infections
- AIDS
- Chlamydia
- Genital warts
- Genital herpes
- Gonorrhea
- Syphilis