Before deciding to do a presentation, check with Ms. Roberts if it is necessary.

- This project is intended for students who may want to ensure they are successful in the course or have had a recent decline in marks.
- Choose One of the subjects below (with a \(\sigma\) beside it)
- Develop a quick 5-10 minute presentation to do IN CLASS June 11, 12, 14, 15.
- Check with Ms. Roberts before you begin. Each block will only have one person do a topic (no repeats in the same class).
- If you have an area that you are interested in surrounding reproduction or the nervous system, check with Ms. Roberts to see if it fits with the curriculum below

You will be assessed on:

- Presentation skills clear voice, eye contact, clarity of information.
- Preparedness Resources (It is expected you either have a handout to show on the doc camera or a slide presentation)
- Preparedness *Knowledge* (It is expected that you only refer to your notes occasionally and are able to answer questions. As well, be able to pronounce all words correctly)

		LOGY 12 CURRICULUM TOPICS TO CHOOSE FROM:
Ч	ide	ntify the major components of a synapse, including – Synapses and neurotransmitters
	_	synaptic ending
	_	presynaptic and postsynaptic membranes
	_	synaptic cleft
	_	synaptic vesicle
	_	calcium ions and contractile proteins
	_	excitatory and inhibitory neurotransmitters (e.g., norepinephrine, acetylcholine
		ACh)
	_	receptor
	_	acetylcholinesterase (AChE)
	exn	plain the process by which impulses travel across a synapse
describe how neurotransmitters are broken down in the synaptic cleft		
		scribe the structure of a reflex arc (receptor, sensory neuron, interneuron, motor neuron, and
		r) and relate its structure to how it functions
CII	ccto	and reduce to birdefule to now it functions
	com	pare the locations and functions of the central and peripheral nervous systems -
_		scribe the inter-related functions of the sympathetic and parasympathetic divisions of the
		mic nervous system, with reference to – Fight or Flight or Relaxed State
auı		effect on body functions including heart rate, breathing rate, pupil size, digestion
	_	neurotransmitters involved
	_	
	_	overall response ("fight or flight" or relaxed state)
	_	identify the source gland for adrenalin (adrenal medulla) and explain its role in the "fight or
		flight" response
u		ntify and give functions for each of the following: anatomy of the male reproductive system
	_	testes (seminiferous tubules and interstitial cells)

- scrotum
- epididymis
- ductus (vas) deferens
- prostate gland
- Cowper's glands
- seminal vesicles
- penis
- urethra
- describe the path of sperm from the seminiferous tubules to the urethral opening
- list the components seminal fluid (as contributed by the Cowper's glands, prostate gland, and

	seminal vesicles), and describe the functions of each component - describe the functions of testosterone – primary and secondary functions of testosterone describe the homeostatic regulation of testosterone levels by the hypothalamus, anterior itary, and testes – Male reproductive hormones		
	identify and give functions for each of the following: General anatomy of the female reproductive automy		
	 ovaries (follicles and corpus luteum) 		
	- oviducts (fallopian tubes)		
	– uterus		
	- endometrium		
	- cervix		
	- vagina		
	- clitoris		
	describe the functions of estrogen		
	describe the sequence of events in the ovarian cycle, with reference the follicular phase,		
	ation, and the luteal phase – the egg maturation within the ovary		
	describe the sequence of events in the uterine cycle, with reference to menstruation, the		
	iferative phase, and the secretory phase – the menstrual cycle		
	describe the control of the ovarian and uterine cycles by hormones including gonadotropin-		
	sing hormone (GnRH), follicle-stimulating hormone (FSH), luteinizing hormone (LH),		
	ogen, and progesterone – Hormones and how they impact egg production		
U (describe the hormonal changes that occur as a result of implantation, including –		
	nancy		
	production of human charianic consideranin (UCC) to maintain the computation		
	 production of human chorionic gonadotropin (HCG) to maintain the corpus luteum 		
	 production of numeric choronic gonadotrophi (17CG) to maintain the corpus luteum increased production of progesterone by the corpus luteum describe a positive feedback mechanism involving oxytocin - Childbirth 		