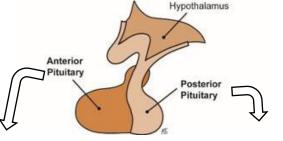
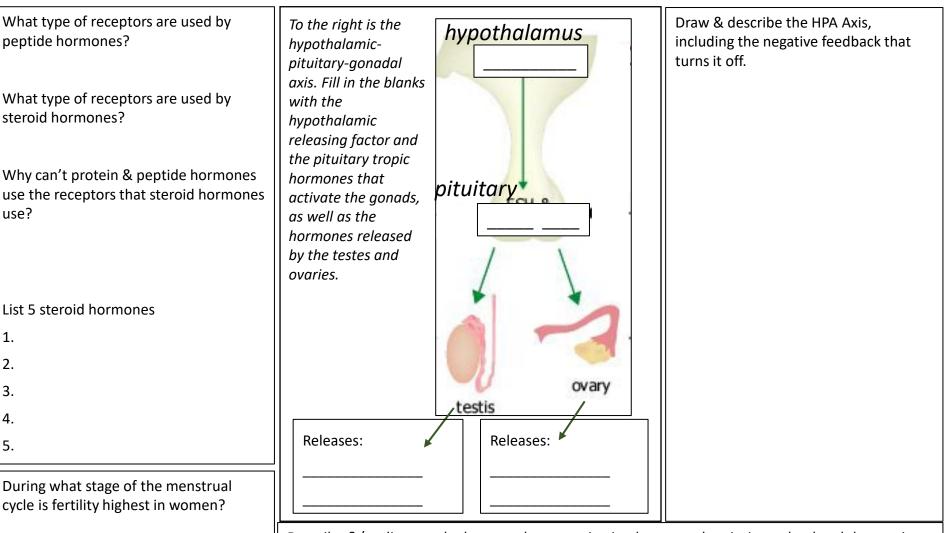
Complete the chart below with the hormones released by the anterior pituitary gland (tropic hormones), the releasing hormone for each tropic hormone, the organ affected &/or hormone stimulated by that tropic hormone, & the peripheral effects. The first has been completed for you as an example.



Name			
Term			

Complete the chart below with the hormones released by the posterior pituitary gland and their peripheral actions.

Releasing factor	Tropic hormone	Peripheral organ/hormone	Peripheral actions	Hormone	Actions
Corticotropin releasing factor (CRF)	Adrenocortico- tropic hormone (ACTH)	Adrenal glands/ cortisol	Aspects of stress response		
				Posterior pitu	itary hormones are made in the
					r diagram the hypothalamic-pituitary-thyroid g the negative feedback that turns it off.
Describe &/or draw the milk letdown reflex:					



How do oral contraceptives block pregnancy?

Describe &/or diagram the hormonal communication between the pituitary gland and the ovaries during the menstrual cycle.

Name Term		Organizational/developmental and activational effects of hormones: (1) Define		
Diagram the synthesis pathway for the sex hormones. Include the following: testosterone, DHT, progesterone, estradiol, 5- alpha-reductase, and aromatase.		each. (2) When does each occur? (3) Are (4) Provide an example of each. <u>Organizational</u> : 1.	e the effects permanent or temporary? <u>Activational</u> : 1.	
		2.	2.	
		3.	3.	
		4.	4.	
labeling the gonads, Mullerian Ducts, and Wolfian Ducts, and noting which is the primordial female tract and which is the primordial male tract. Gene the Protein Hormor 1		al differentiation: e that triggers gonads to develop as testes: ein above gene codes for: nones secreted by developing testes and the action of each: does differentiation proceed in the XX fetus? e XX fetus, what are the levels of androgens, estrogens, and progestins (high or absent)? ogens: Estrogens:		

Nar	ne Term			
 Consider the rat experiments on sexual differentiation of the brain and body. Circle the correct answers in parentheses. a. An untreated male has (high/low) testosterone at birth and in adulthood and a (small/large) SDN-POA. b. An untreated female has (high/low) testosterone at birth and in adulthood and a (small/large) SDN-POA. c. A female treated with testosterone at birth has (high/low) testosterone in adulthood and a (small/large) SDN-POA. d. A female rat treated with testosterone in adulthood has a (small/large) SDN-POA. e. Taken together, these data suggest that the size of the SDN-POA depends on (hormone and time of exposure): 		For the intersex conditions below, (1) what is the difference in prenatal androgen activity compared with typical development, (2) why does that difference occur, and (3) what is the resulting anatomical phenotype? <i>CAH</i> :		
		5-alpha-reductase deficiency:		
f. g. h.	A typically developed male will (mount/lordose) a female rat. A typically developed female rat will (mount/lordose) in the presence of a male rat. Under what circumstances will a male rat lordose? a. Castration at birth			
i.	 b. Estradiol in adulthood c. Both A and B Under what circumstances will a female rat mount? 	During puberty: a. Growth hormone, LH, and FSH are released from the		
	 a. Testosterone at birth b. Testosterone in adulthood c. Both A and B 	b. Growth hormone causes		
	Taken together, these data suggest that reproductive behavior in rats depends on (hormone and time(s) of exposure):	c. LH and FSH increase the release of, which activate sex genes.		
		d. Those genes lead to the development of the		
	2 reasons that researchers looked at the preoptic area when studying ual dimorphisms in the rat brain.	e. These changes constitute effects of hormones a. organizational b. activational c. both organizational & activational		