The worksheet below is adapted from

- A. Fundamentals of Anatomy and Physiology (9th Ed) by Martinin at al
- B. Human Anatomy and Physiology Lab Manual (9th Ed) by Marieb and Mitchell

The	Thyroi	id G	land
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1.	Major role (big picture)
2.	Location
3.	Hormones secreted
4.	Mineral required by this gland to produce hormones
5.	Generate the pathway of activation by placing the steps in the correct order. Use arrows to indicate the negative feedback loops. a. Thyroid gland increased, hormone secretion b. Anterior pituitary gland, increased TSH secretion c. Target cells for hormone d. Neural inputs e. Increased plasma TSH concentration f. Increased plasma hormone concentration g. Hypothalamus, increased TRH secretion
6.	Name one target cell for TH
7	Name a diseases associated with this gland

The Adrenal Gland

8.	Major role (big picture)			
9.	Location			
10.	Hormones secreted, specify if produced by cortex or medulla.			
11.	Generate the pathway of activation by placing the steps in the correct order. Use arrows to indicate the negative feedback loops. a. Neural input induced by Stress or non stress situations b. Increased plasma ACTH concentration c. Anterior pituitary, increased ATCH secretion d. Target cells for cortisol hormone e. Hypothalamus, increased CRH secretion f. Adrenal gland, increased cortisol secretion g. Increased plasma cortisol concentration			
13.	Name one target cell for the pathway listed in 12.			
14.	What effect does cortisol have on the target cell named in 13.			

15. Generate the pathway of activation by placing the steps in the correct order.	
	 a. Increased plasma epinephrine concentration b. Adrenal gland stimulation by sympathetic division of the nervous system c. Adrenal gland, increased secretion of epinephrine d. Target cells for epinephrine
16. N	ame one target cell for the pathway listed in 15
17. W	hat effect does epinephrine have on the target cell named in 16.
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18. T	his response is termed the
19. N	ame a diseases associated with this gland

The Pancreas

20.	Major role (big picture)		
21.	Location		
22.	Hormones secreted, include name of specific cell that hormone is secreted from.		
23.	Generate the pathway of activation by placing the steps in the correct order. Using arrows,		
	indicate the negative feedback loops. a. Increased plasma insulin concentration b. Increased blood glucose levels c. Pancreas, increased insulin secretion d. Restoration of plasma glucose to normal e. Target cells for insulin		
24.	Name one target cell for the pathway listed in 23		
25.	What effect does insulin have on the target cell named in 24.		

26.	26. Generate the pathway of activation by placing the steps in the correct order. Using arrows, indicate the negative feedback loops.	
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		Decreased Blood glucose Target cell of glucagon
		Increased plasma glucose
		Increased plasma glucose Increased plasma glucagon
		Pancreas, increased glucagon secretion
	e.	rancieas, increased glacagon secretion
27.	Name o	one target cell for the pathway listed in 26
20	\\/hat o	affect does alusagen have on the target cell named in 27
20.	vviiat e	effect does glucagon have on the target cell named in 27.
29.	Name a	a diseases associated with this gland