

I'm not robot!





# The Respiratory System

Use the words in the box to fill in the blanks.

air	oxygen	inhale	exhale
lungs	trachea	respiratory	cough
carbon dioxide	yawn	bronchi	pharynx
hiccup	diaphragm	water vapor	nose
mouth	sneeze	blood	

All animals need \_\_\_\_\_ to make energy from food. We get this oxygen from the \_\_\_\_\_ that we breathe. In order to get the oxygen into the blood where it can be transported to the rest of the body, the air travels through a system of organs called the \_\_\_\_\_ system.

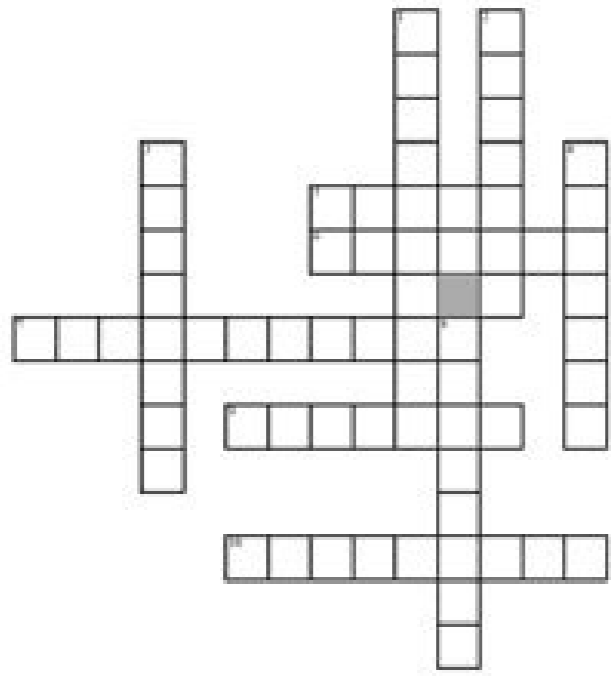
When you \_\_\_\_\_, air enters the body through the \_\_\_\_\_ or the \_\_\_\_\_. From there it passes through the \_\_\_\_\_, which forces air into the \_\_\_\_\_ and food into the esophagus. The air travels down the trachea into two branching tubes called \_\_\_\_\_ and then on into the \_\_\_\_\_.

In the lungs oxygen from the air enters the \_\_\_\_\_. At the same time, the waste gas \_\_\_\_\_ leaves the blood and then leaves the body when you \_\_\_\_\_. Some \_\_\_\_\_ also leaves the body when you exhale, which is why mirrors get foggy when you breathe on them. The \_\_\_\_\_ is the muscle that controls the lungs.

It is important to keep the respiratory system clear so oxygen can keep flowing into your body. If something gets in your nose and irritates it, you \_\_\_\_\_. If something gets in your trachea or bronchi and irritates it, you \_\_\_\_\_. If something irritates your diaphragm, you \_\_\_\_\_. Finally, if the brain thinks you are not getting enough oxygen, then it forces you to \_\_\_\_\_.

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Endocrine System



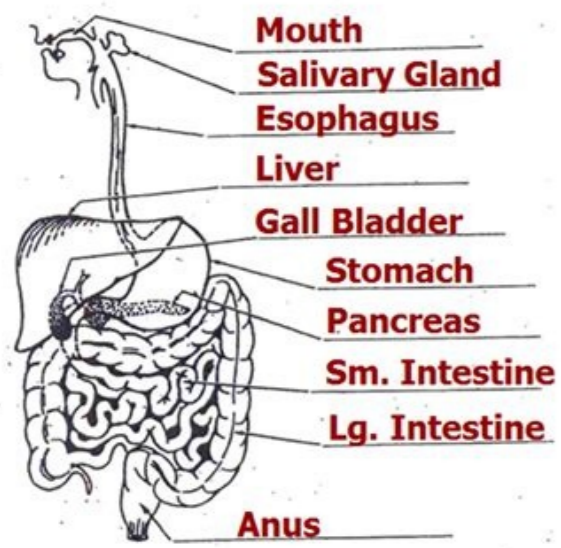
### Across

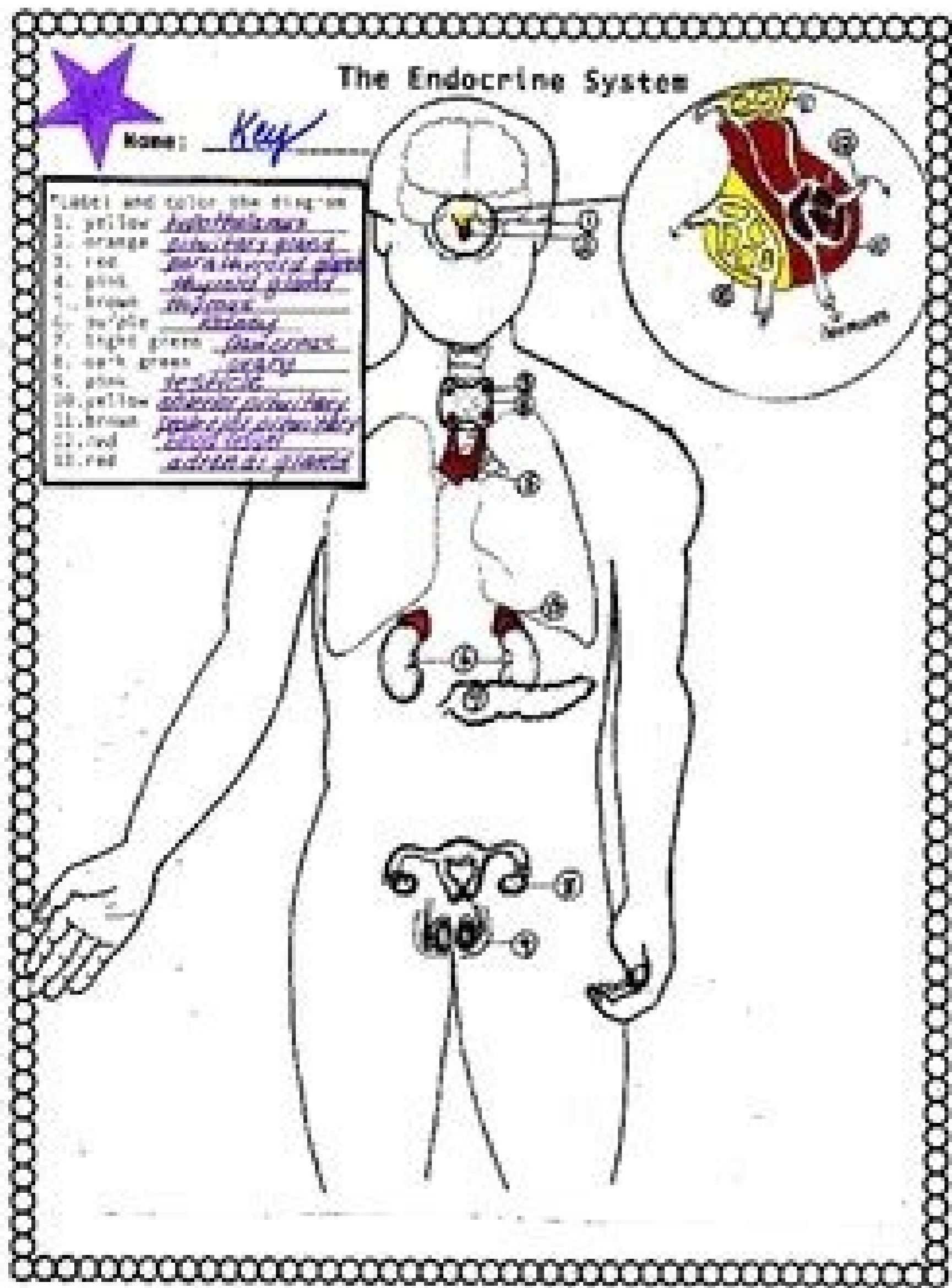
- 5. Viral infection of the spinal cord
- 8. Only found in women, produces oestrogen/progesterone
- 7. Produces a hormone that helps control calcium levels
- 9. Produces adrenaline, on top of kidneys
- 10. Gland that produces growth hormones, master gland

### Down

- 1. What life function do the Nervous and Endocrine system perform
- 2. Makes thyroxine
- 3. Released when your glucose level falls below a set point
- 4. Made by the pancreas
- 8. Improper insulin production, can't regulate the blood sugar level

1. Label the following parts of the digestive system: stomach, liver, large intestine, small intestine, gall bladder, mouth, esophagus, salivary gland, pancreas, and anus.





8B3 Lesson 3 – Digestion video RM

Skills developed by watching this video: listening and memory

Ch – challenge questions

- 1) What 3 main nutrients are in an egg sandwich? (3 marks)  
**Protein, carbohydrate, fat**
- 2) Where are each of the nutrients found? (3 marks)  
**Carbohydrate in bread, protein in egg, fat in butter**
- 3) The digestive system is a \_\_\_\_\_ tube that is \_\_\_\_\_ metres long (2 marks)  
**1, 9**
- 4) Ch – Food is made up of large molecules that need to be broken down into smaller molecules (2 marks)
- 5) What is the job of the teeth? (1 mark)  
**To break down food into smaller pieces**
- 6) Ch – What is the digestive enzyme in saliva that chemically breaks down starch in food? (1 mark) amylase – all enzyme names end in ‘-ase’
- 7) What is the name of the tube that connects the mouth to the stomach? (1 mark) **oesophagus**
- 8) What is the job of the tube that connects the mouth to the stomach? (1 mark) **To move food along**  
Ch – what is name given to this function? **Peristalsis** (2 marks)
- 9) Why does the stomach have elastic walls? (1 mark) **to stretch when food passes through**
- 10) What nutrient is digested in the stomach? **Protein only** (1 mark)
- 11) Ch – what is gastric juice and where is it produced? **Gastric juice contains the enzyme pepsin that digests protein and is produced in the pits of the stomach** (2 marks)

Wordbank – choose carefully	
Enzyme, tube, barium sulphate, protein, large intestine, carbohydrate, peristalsis, amylase, minerals, vitamins, fat, metres, kilometres, molecules, small, large, oesophagus, barium	1, 9

Endocrine system webquest answer key pdf.

Major Function(s) of Structure This gland is at the base of the brain, and is no bigger than a pea. Despite its small size, the pituitary is often called the "master gland." The hormones it makes control many other endocrine glands. \*Master signal for all glands Antidiuretic as an example Acromegaly Prolactinoma Cushing's Disease It PRODUCES Thyroid hormones that regulate the body's metabolism. It also plays a role in bone growth and development of the brain and nervous system in children. The Thyroid produces hormones associated with calorie burning and heart rate hyperthyroidism hashimoto's thyroiditis Graves' Disease Goiter This part of your brain is important in regulation of satiety, metabolism, and body temperature The hypothalamus secretes a hormone called somatostatin, which causes the pituitary gland to stop the release of growth hormones. bulimia anorexia malnutrition genetic disorders It regulates the body's metabolism, the balance of salty and water in the body, the immune system, and sexual function. It also produces hormones called catecholamines. These hormones help the body cope with physical and emotional stress by increasing the heart rate and blood pressure. Adrenal glands produce the hormones that control sex drive and cortisol, the stress hormone. genetic mutations, tumors, infections Thank you for your participation! This one page (front and back) Endocrine System Science Biology webquest helps students develop their internet search skills while advancing their reading and understanding of informational text. This is a great introductory lesson to help students develop beginning or deepen knowledge of the Endocrine System. Students learn about components of the Endocrine system and their functions including the Pituitary, Pineal, Adrenal, Thyroid, Pancreatic and Reproductive glands, hormones, puberty, receptors, target cells and more. Answer Key and extension activity included. This lesson links with Common Core reading informational text skills. This is a Microsoft Word file which you can edit and tailor to your liking. \*\*Bonus fun page included at the end of the file\*\*Your purchase INCLUDES a separate printable worksheet version of the file for teachers who want to print the webquest out and make copies for their class to complete with pen/pencil.This lesson is contained within my Body Systems Webquests Science Bundle + Vocab Quizzes + Crossword Puzzles which includes the following resources you may be interested in:Digestive System WebquestCirculatory System WebquestMuscular System WebquestSkeletal System WebquestNervous System WebquestRespiratory System WebquestEndocrine System WebquestReproductive System Webquest\*\*\*\*\*Other Science resources you might be interested in:Science Vocabulary Crossword Puzzle Activity BundleScience Vocabulary Quizzes and Word List BundleBody System Webquests BundleScavenger Hunts ScienceHuman Body Systems Labeling Worksheets Bundle\*\*\*\*\*Thanks for visiting my store! Don't forget to Follow Me for new product announcements, sales, promotions and updates!TechCheckLessonsTechCheckLessons is not affiliated with Microsoft Corp.Product names, logos, brands, and other trademarks featured or referred to within this lesson are the property of their respective trademark holders.These trademark holders are not affiliated with my store. They do not sponsor or endorse the contents, materials or processes discussed within this lesson.Terms of Use:\*\*\*\*\*This document is for personal use only and may only be used by the original purchaser. Copying for more than one teacher, classroom, department, school, or school district is prohibited. Additional licenses can be purchased at a discount for others to use in your department. You may not electronically distribute or post this product online where it can be accessed by the public (school INTRANET site that only students can access is fine like Google Classroom or Canvas). Failure to comply is a copyright infringement and a violation of the Digital Millennium Copyright Act (DMCA). On newer cars, keys do a lot more than just lock and unlock doors. A signal from an invalid keyfob can trigger an alarm system or even disable the engine. This way, if someone enters the car without a valid ignition key, they won't be able to drive away.For those who don't want to go through the hassle of pushing a button every time they want to open the doors, there is another option available. Several automotive manufacturers, especially those that produce luxury and hybrid cars, are switching to systems that use smart keys. Smart keys are part of a computerized system that uses sensors and microchips to automatically unlock the doors and start the vehicle without the use of a key [source: Toyota]. Smart keys are often shaped more like plastic cards than actual keys.On smart key systems like these, the driver needs only to walk up to the car and the doors unlock automatically. When he or she sits inside, they press an "engine start" button to get the car going without physically turning a key. As long as they have the smart key somewhere in the vehicle, perhaps in his or her pocket or purse, the engine will start. The key can also store information like power seat and mirror settings [source: Braunstein].How good are these smart keys when it comes to anti-theft technology? Well, for one, they also use rolling codes. A computer inside the vehicle recognizes the rolling code projected by the smart key, and then verifies it before starting the engine. BMW's smart keys also use computer-encrypted microchips to ward off car thieves who want to exploit this technology [source: Popular Mechanics]. This way, no one can use just any smart key to open up your vehicle's doors or start its engine. The technology may be more advanced, but the effect is basically the same: your key matches your car.So is this new advanced key setup a better method of keeping your vehicle safe? In many ways, it is, but researchers, hackers, and would-be car thieves are always coming up with new ways to try to steal what's yours. If and when these criminals crack the latest technology, you can be sure that automakers will be prepared to offer something new.You can read more about automotive electronics and other related topics by following the links below.Related HowStuffWorks ArticlesBraunstein, Janet. "Car Security: Smart Cards." AutoTrader.com. (Feb. 11, 2009) Channel. "MythBusters: Cell Phone Remote." Feb. 13, 2008 (Feb. 11, 2009) Matt. "HOW IT WORKS; Remote Keyless Entry: Staying a Step Ahead of Car Thieves." The New York Times, June 7, 2001. (Feb. 11, 2009) John. "Allocation of Radio Spectrum in the United States." May 26, 2002. (Feb. 11, 2009) Mechanics. "Are Keys Getting Too Smart? New Car Keys Bring Advanced Tech to Driver's Seat." Oct. 28, 2008. (Feb. 11, 2009) . "Toyota Glossary." (Feb. 11, 2009) Kim. "Researchers Crack KeeLoq Code for Car Keys." Wired.com. Aug. 24, 2007. (Feb. 11, 2009) Transcript Name \_\_\_\_\_ Date \_\_\_\_\_ ENDOCRINE SYSTEM WEBQUEST Background: The endocrine system is a complex network of glands, hormones and receptors. It provides the key communication and control link between the nervous system and bodily functions such as reproduction, immunity, metabolism and behavior. In nearly all complex multicellular animals, there are two main systems controlling and coordinating the processes within the body: The nervous system, which exerts rapid point-to-point control by means of electrical signals passing down the nerves to particular organs or tissues. The endocrine system, which is a slower system based on chemical messengers, the hormones, which are secreted into the blood (or other extracellular fluids) and can reach all parts of the body. The nervous system works in tandem with the endocrine system to control all bodily functions and processes. Your mission: Become familiar with the endocrine system, how it relates to the nervous system and the result of this interaction on the body. PART 1: The Glands and their Associated Hormones Link: 1. Label the following 8 Endocrine glands 2. Now complete this table of all the hormones and their functions (cont. on next page) Hormone Function 3. Test Yourself: Study the chart above. Then try not to look at it and go to Drag and Drop Matching and complete the tutorial for the Endocrine System to test your memory! Link: PART 3: The Hypothalamic-Pituitary-Endocrine Axis and Positive and Negative Feedback Loops 4. Use the information in the following link to answer the questions below. Link: ml a. What is the difference between negative and positive feedback? Discuss them in terms of the changes in the process vs. the changes in the amount of the product. Hint: Read the text above the animation! b. In the animation, what hormone stimulates the release of GnHR and LH? c. Explain why the interaction between estrogen, GnHR and LH prior to ovulation is considered to be a positive feedback loop (effect)? Hint: review the definitions of positive feedback loops. d. After ovulation, what hormone is released in response to increased levels of LH? e. Explain why the interaction between progesterone, GnHR and LH after ovulation is considered a negative feedback loop (effect)? Hint: review the definitions of negative feedback loops. 5. Use the information in the following link to answer the questions below. Link: a. Which gland is the link between the nervous system and the endocrine system? b. When I think of the interplay between the hypothalamus and the pituitary gland, it reminds me of The Wizard of Oz in the scene below: i. Place the words hypothalamus and pituitary in the correct boxes below: ii. Why did you answer the way you did in the pictures above? c. How is the pituitary gland like the substance below: d. What two hormones are produced from the neurons that extend into the posterior pituitary? e. What allows oxytocin and antidiuretic hormone (ADH) to be able to be released into the bloodstream? f. Why is ADH known as a vasopressin ("vaso" = refers to blood vessel)? g. What is contained in the anterior pituitary? h. The hormones listed above are produced by the neurons in the posterior pituitary. How are hormones released from the cells in the anterior pituitary?

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