

Fifth Grade “The Human Body” Assessment

1a. The period of growth and changes in the human body that occurs between eight and seventeen is known as _____.

1b. What is adolescence?

1c. Describe some things that happen during adolescence.

2a. A rapid change in height and weight is called _____.

2b. Explain a growth spurt.

2c. Explain why an adolescent may feel awkward during a growth spurt.

3a. Name a growth change that will happen to you personally during adolescence.

3b. Name a growth change for both a boy and a girl that will happen during adolescence.

BOY _____
GIRL _____

3c. Compare and contrast the growth changes that boys and girls have during adolescence.

4a. During adolescence, changes occur as powerful chemicals called _____ are released into the blood stream from glands in your body.

4b. What are hormones?

4c. What are hormones? Give an example of a hormone.

5a. The human body has two types of glands: duct glands and _____.

5b. What are the two types of glands in the human body?

5c. What are the two types of glands in the human body? Give examples of each and tell how they are different.

6a. Name the endocrine gland associated with the following.

GLAND

DEFINTION

1. _____

1. located at bottom of brain, controls other glands and regulates growth

2. _____

2. located below voice box, controls body burning and using food

3. _____

3. both a duct and ductless gland, controls body using and storing sugar

4. _____

4. located near kidneys, causes rapid heartbeat and breathing when frightened or angry

6b. Give the location and function of the following endocrine glands.

<u>GLAND</u>	<u>LOCATION</u>	<u>FUNCTION</u>
1. pituitary	1. _____	1. _____
2. thyroid	2. _____	2. _____
3. pancreas	3. _____	3. _____
4. adrenal	4. _____	4. _____

6c. Explain the following endocrine glands effects on the body if their hormones are not regulated.

1. Pituitary-

2. Thyroid-

3. Pancreas-

4. Adrenal-

7a. Which of the following are NOT part of the female reproductive system?

fallopian tubes	scrotum	menstruation	testes	ovaries
uterus	penis	semen	vagina	urethra

- 7b. Place the following under the appropriate heading.
- | | | | | |
|-----------------|---------|--------------|--------|---------|
| fallopian tubes | scrotum | menstruation | testes | ovaries |
| uterus | penis | semen | vagina | urethra |

MALE

1. _____
2. _____
3. _____
4. _____
5. _____

FEMALE

1. _____
2. _____
3. _____
4. _____
5. _____

- 7c. Identify the function of the following male and female reproductive system parts.

1. fallopian tubes-

2. scrotum-

3. menstruation-

4. testes-

5. ovaries-

6. uterus-

7. penis-

8. semen-

9. vagina-

10. urethra-

- 8a. Fill in the missing sexual reproduction stages:

intercourse, _____, zygote, implantation of zygote in uterus, pregnancy,
 _____, fetus, newborn

8b. What are the sexual reproduction stages in a human?

8c. Describe the process of sexual reproduction and its stages in the human body.

The following Colorado Model Content Standards are covered in this assessment by the questions indicated:

Questions 1a, 1b, 1c, 2a, 2b, 2c, 3a, 3b, 3c, 8a, 8b, 8c: Standard 5-8.3.3.c describing the growth and development of several organisms

Questions 4a, 4b, 4c, 5a, 5b, 5c, 6a, 6b, 6c, 7a, 7b, 7c: Standard 5-8.3.3.d describing the structures and functions of human body systems

Answer Key

- 1a. puberty or adolescence
- 1b. Acceptable answers could include:
-the period of growth and changes in the human body that occurs between eight and seventeen
- 1c. Acceptable answers could include:
-As an adolescent, you may experience an increase in your appetites; you may be hungry all the time. You may become more active during the day, and require more sleep at night. Some people experience a very rapid change in height and weight, sometimes called a growth spurt. Their muscles and bones get larger, and their favorite clothes don't fit anymore. They may feel awkward, because their hands and feet are growing faster than the other parts of their body. Girls start to develop breasts, and their hips begin to round out. Boys' shoulders widen, and their voices change, sometimes cracking as they begin to deepen. Both boys and girls develop hair under their arms and around their genitals.
- 2a. growth spurt
- 2b. Acceptable answers could include:
-a growth spurt causes your body to have a very rapid change in height and weight during adolescence
- 2c. Acceptable answers could include:
-Adolescents may feel awkward because of the changes in their bodies. Clothes that used to fit, don't. Their hands and feet are growing faster than the other parts of their bodies.
- 3a. Acceptable answers could include:
-boy - shoulders widen, voices change, develop hair under arms and around genitals
-girl - develop breasts, hips begin to round out, hair develops under arms and around genitals
- 3b. Acceptable answers could include:
-boy - shoulders widen, voices change, develop hair under arms and around genitals
-girl - develop breasts, hips begin to round out, hair develops under arms and around genitals
- 3c. Acceptable answers could include:
-boy - shoulders widen, voices change, develop hair under arms and around genitals
-girl - develop breasts, hips begin to round out, hair develops under arms and around genitals
- 4a. hormones
- 4b. Acceptable answers could include:
-chemical substances, produced in the body by endocrine glands, that are transported by the blood to other organs to stimulate their function
- 4c. Acceptable answers could include:
-chemical substances, produced in the body by endocrine glands, that are transported by the blood to other organs to stimulate their function and adrenaline, estrogen, insulin, and testosterone are all hormones

- 5a. ductless glands or endocrine glands
- 5b. Acceptable answers could include:
-ductless glands or endocrine glands and duct glands
- 5c. Acceptable answers could include:
-ductless glands or endocrine glands and duct glands
-duct gland examples- salivary and sweat glands, endocrine gland examples – pituitary, thyroid, pancreas, adrenal
-The difference between ductless (endocrine) glands and duct glands is that duct glands secrete their substances through channels called ducts, while the endocrine(ductless) secrete their substances directly into the blood stream.
- 6a. 1. pituitary
2. thyroid
3. pancreas
4. adrenal
- 6b. Acceptable answers could include:
1. bottom of the brain, secretes hormones that control other glands and regulate growth
2. below the voice box, secretes a hormone that controls the rate at which the body burns and uses food
3. by the stomach, secretes a hormone called insulin that regulates how the body uses and stores sugar
4. by the upper part of each kidney, secretes a hormone called adrenaline, especially when a person is frightened or angry, causing rapid heartbeat and breathing
- 6c. Acceptable answers could include:
1. Too much hormone results in exaggerated bone growth, exceptionally tall or a giant, too little hormone may cause pituitary dwarf of normal proportions but small stature
2. Too much hormone results in hyperthyroidism causing feeling hotter, trouble sleeping, and irregular heartbeats, too little hormone results in hypothyroidism where weight could increase, or trouble losing weight, fatigued
3. Too much hormone results in hypoglycemia or low blood sugar causing nausea, nervous feeling, cold, clammy skin, rapid heart beat for mild cases, if more severe could result in death if not treated, Too little hormone results in diabetes causing excessive thirst, hunger, urination and weight loss
4. Too much hormone could cause Cushing's syndrome causing obesity, slowed growth, acne, high blood pressure, Too little hormone causes weakness, fatigue, abdominal pain, deepening of skin color
- 7a. scrotum, testes, penis, semen, urethra
- 7b. MALE - scrotum, testes, penis, semen, urethra
FEMALE - fallopian tubes, menstruation, ovaries, uterus, vagina
- 7c. Acceptable answers could include:
1. the slender tubes through which ova pass and where fertilization takes place
2. the external pouch or sac located behind the penis
3. the periodic discharge of the blood enriched lining of the uterus

4. the two organs in the male reproductive system that produce sperm and testosterone
 5. the paired organs in the female reproductive system that produce ova and release certain hormones, such as estrogen
 6. the pear shaped organ in the female reproductive system where the embryo or fetus develops until birth
 7. the organ of the male reproductive system through which semen passes out of the body during sexual intercourse
 8. the sticky white fluid produced in the male reproductive system that carries sperm
 9. the tube like passageway in the female that connects the external genitals with the uterus
 10. the tube through which urine moves and acts as the passageway for semen
- 8a. fertilization, embryo
- 8b. Acceptable answers could include:
-intercourse, fertilization, zygote, implantation of zygote in uterus, pregnancy, embryo, fetus, newborn
- 8c. Acceptable answers could include:
-During sexual intercourse, the male places his penis inside the female's vagina. The semen shoots out of his penis and into her vagina, and the sperm swim toward her uterus. After reaching her uterus, they swim toward the fallopian tubes, where one sperm cell and only one is admitted through the egg's outer covering. When egg and sperm join, fertilization has occurred. If the egg is fertilized, it develops into a zygote, which travels down the fallopian tube and implants itself in the wall of the uterus. Here it grows into an embryo and further develops into a fetus. The fetus grows inside its mother for nine months, until it is developed enough to live in the outside world. When it is born, a baby needs constant care and attention.