

FUNCTIONS OF SYSTEMS: DIGESTIVE SYSTEM

Performance Standard 23A.F

Determine the location and function of each part of the digestive system. Explain and illustrate how these parts work together accordingly:

- *Knowledge:* Know the location and function of each part of the digestive system.
- *Application:* Apply the knowledge to correctly illustrate the digestive system.
- *Communication:* Communicate knowledge of the digestive system through identification of the locations and functions of the various system parts.

Procedures

Note: Provide students with opportunities to research and discuss the parts and functions of the digestive system.

In order to describe and explain the structure and function of the human body systems and how they interrelate (23A), students should experience sufficient learning opportunities to develop the following:

- Illustrate how food is processed and moves through the digestive system.
1. Give each student the digestive system diagram and a copy of the structures/functions sheet.
 2. Identify structure and function of each system part on the task sheet using the corresponding numbers from the diagram.
 3. Evaluate each student's performance using the "Functions of Systems" Rubric as follows:
 - *Knowledge:* The knowledge dimension was demonstrated in the performance.
 - *Application:* Applied knowledge to correctly illustrate the digestive system.
 - *Communication:* Communicated knowledge of the digestive system through identification of the locations and functions of the various system parts.

Examples of Student Work

- [Meets](#)
- [Exceeds](#)

Time Requirements

- One class period
- The instructional phase is up to the instructor.

Resources

- Textbooks and other reference books
- Internet Sites
- Glue or tape
- Copies of Functions of Systems Worksheet

**FUNCTIONS OF SYSTEMS: DIGESTIVE SYSTEM
(Teacher Reference)**

DIGESTIVE SYSTEM: PARTS AND FUNCTIONS

Large Intestine	Helps form food into boluses
Food is stored, churned, mixed and broken up in this organ	Tongue
Appendix	Secretes a liquid that aids in the beginning part of digestion in the mouth
Where nutrients are absorbed	Gall Bladder
Is a part of two systems; secretes hormones that control blood-sugar levels; secretes digestive juices into the small intestine	Liver
Pancreas	Absorbs water and gets rid of waste
Salivary Glands	A small appendage between the two intestines; has no function in digestion
Organ that removes harmful materials from the body and produces bile	Stomach
Esophagus	Muscular tube that is a passage for food to get to the stomach
Bile is stored here before going into the small intestine	Small Intestine

FUNCTIONS OF SYSTEMS: DIGESTIVE SYSTEM

NAME _____ DATE _____

- Exceeds standard (17 – 20 structures and functions correct)
- Meets standard (14 - 16 structures and functions correct)
- Approaches standard (10 - 13 structures and functions correct)
- Begins standard or absent (0 - 9 structures and functions correct)

Match the word with the correct definition. Then match the correct number on the diagram with the correct word.

STRUCTURE	NUMBER	FUNCTION
_____	_____	Helps form food into small pieces
_____	_____	Food is stored and broken up in this organ
_____	_____	Secretes a liquid that aids in the beginning part of digestion in the mouth
_____	_____	Controls blood-sugar levels
_____	_____	Gets rid of waste
_____	_____	Organ that removes harmful materials from the body
_____	_____	Small appendage between two intestines
_____	_____	Muscular tube that is a passage for food to get to the stomach
_____	_____	Bile is stored here before going into the small intestine
_____	_____	Where nutrients are absorbed

Word Bank

Large Intestine

Liver

Small Intestine

Tongue

Pancreas

Esophagus

Appendix

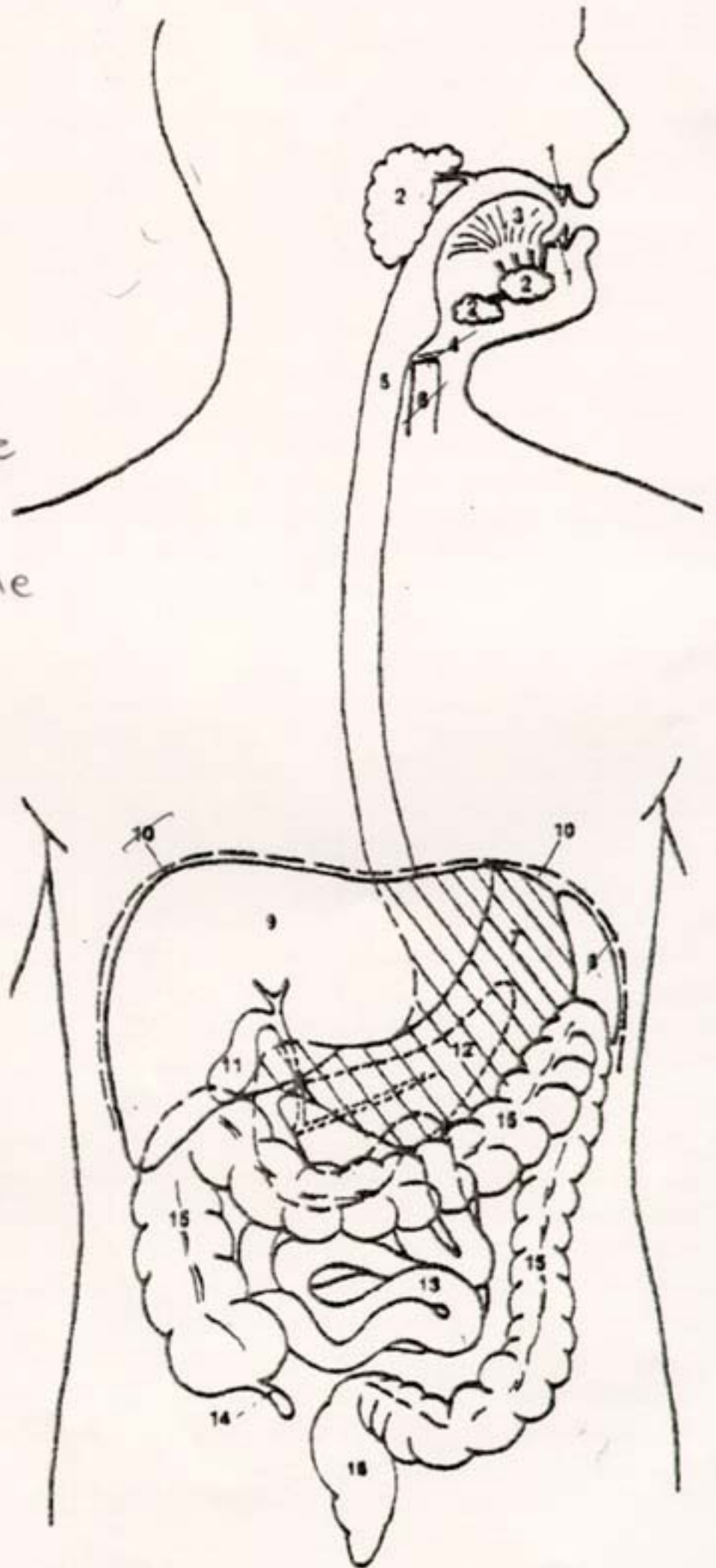
Salivary Glands

Gall Bladder

Stomach

DIGESTIVE SYSTEM

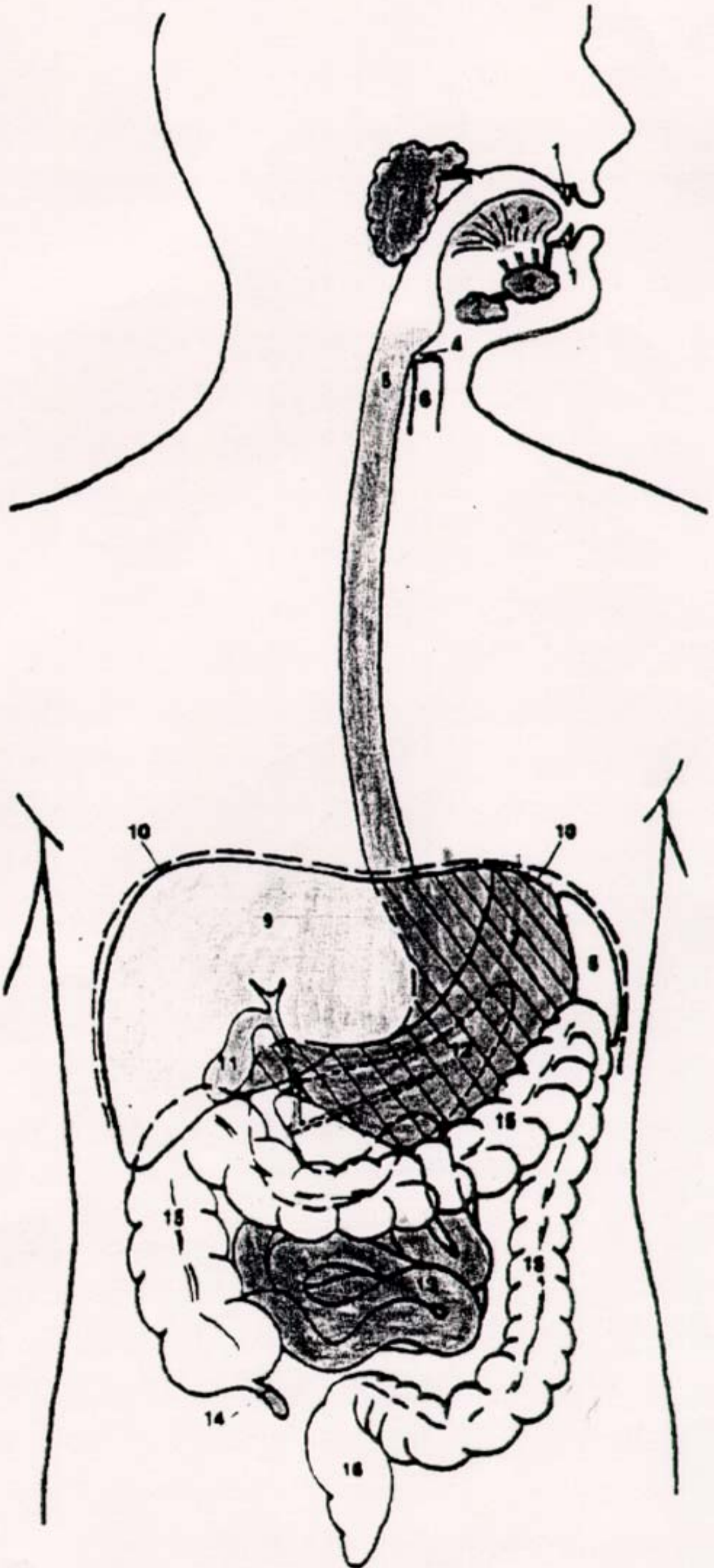
1. teeth
2. salivary gland
3. tongue
5. esophagus
7. stomach
9. liver
11. gallbladder
12. pancreas
13. small intestine
14. appendix
15. large intestine
16. rectum



DIGESTIVE SYSTEM: PARTS AND FUNCTIONS

Large Intestine	Helps form food into boluses 13
Food is stored, churned, mixed and broken up in this organ 17	Tongue
Appendix	Secretes a liquid that aids in the beginning part of digestion in the mouth 3
Where nutrients are absorbed 2	Gall Bladder
Is a part of two systems; secretes hormones that control blood-sugar levels; secretes digestive juices into the small intestine 12	Liver
Pancreas	Absorbs water and gets rid of waste 15
Salivary Glands	A small appendage between the two intestines; has no function in digestion 14
Organ that removes harmful materials from the body and produces bile 9	Stomach
Esophagus	Muscular tube that is a passage for food to get to the stomach 5
Bile is stored here before going into the small intestine 11	Small Intestine

DIGESTIVE SYSTEM



Functions of Systems : Digestive System 23A-F

Match the word with the correct definition. Then match the correct number on the diagram with the correct word.

- | <u>Structure</u> | <u>Number</u> | <u>Function</u> |
|----------------------------|---------------|---|
| 1. <u>Tongue</u> | <u>3</u> | Helps form food into small pieces |
| 2. <u>Stomach</u> | <u>7</u> | Food is stored, and broken up in this organ |
| 3. <u>Salivary Glands</u> | <u>2</u> | Secretes a liquid that aids in the beginning part of digestion in the mouth |
| 4. <u>Pancreas</u> | <u>12</u> | Controls blood-sugar levels |
| 5. <u>Large intestine</u> | <u>15</u> | Gets rid of waste |
| 6. <u>Liver</u> | <u>9</u> | Organ that removes harmful materials from the body |
| 7. <u>Appendix</u> | <u>14</u> | Small appendage between two intestines |
| 8. <u>Esophagus</u> | <u>5</u> | Muscular tube that is a passage for food to get to the stomach |
| 9. <u>Gall Bladder</u> | <u>11</u> | Bile is stored here before going into the small intestine |
| 10. <u>Small intestine</u> | <u>13</u> | Where nutrients are absorbed |

Word Bank

~~Large Intestine~~

~~Liver~~

~~Small Intestine~~

~~Tongue~~

~~Pancreas~~

~~Esophagus~~

~~Appendix~~

~~Salivary Glands~~

~~Gall Bladder~~

Stomach