Name: Date:

**KEY**

**Body Systems Packet Chapters 14**

Chapter 14, Lesson 1: Skeletal System

1. On the functions side of the table write the functions of the skeletal system as listed in the chapter. In the example section, write the names of specific bones that perform each of the functions.

|  |  |
| --- | --- |
| Function | Example |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

2. Define the following terms:

* Cartilage:
* Ossification:
* Ligament:
* Tendon:
* Scoliosis:
* Osteoporosis:

3. How are tendons and ligaments important for movement?

4. How can nonrigorous activities, such as typing or sewing, lead to skeletal system injuries?

5. What kinds of protective gear can prev3ent injuries to the skeletal system?

6. How will behaviors you practice during your teen years affect your chances of getting osteoporosis later in life?

7. What are bones made of?

8. Describe the structure/layers of a bone:

9. List 4 flexible joints.

10. What are fractures classified by:

11. What do your bones do until the age of 25?

12. What foods should you eat for strong bones to prevent osteoporosis?

Chapter 14, Lesson 2: Muscular System

1. Define the following terms:

* Smooth muscles
* Skeletal muscles
* Flexor
* Extension
* Cardiac muscle
* Tendonitis
* Hernia

2. What type of muscle is not striated?

3. Where is a smooth muscle found?

4. How can you improve muscle tone?

5. What are some ways that the muscular system works together with other body systems?

6. Why might it be important for the children of a person with muscular dystrophy to be screened for the disease?

7. How can strengthening muscles prevent injury?

8. What do muscles do while you sleep?

9. What do muscles consist of?

10. Most of your muscles tissue is what type?

11. What does atrophy mean?

12. List different muscular problems as listed in the text. Then in the following boxes, define/describe the muscular problem and describe the treatment(s) that is/are recommended.

|  |  |  |
| --- | --- | --- |
| Muscular Problem | Description | How to Treat |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Chapter 14, Lesson 3: Nervous System

1. Define the following terms:

* Neurons
* Cerebrum
* Cerebellum
* Brain stem
* Epilepsy
* Cerebral palsy

2. List the sections of the brain stem and what they do.

|  |  |
| --- | --- |
| Brain Stem Part | Job |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

3. What can result from a spinal cord injury?

4. Which disease or disorder is not degenerative?

5. What disease or disorder is characterized by sudden episodes of electrical activity in the brain?

6. Describe the central nervous system and peripheral nervous system and how they work together during the motor response to a stimulus.

7. Explain the difference between axons and dendrites.

8. Why might symptoms of a degenerative disease of the nervous system be difficult to treat?

9. What might happen in the nervous system and muscles when a person is surprised by a sudden loud sound like a fire alarm going off nearby?

10. Why is it important to wear protective gear and to check the depth of water before diving?

11. What 4 things can you do to protect your nervous system?

12. What are the different types of head injuries?