

**Bones and Muscles ▪ 13.4 Review and Reinforce**

## Machines and the Body

**Understanding Main Ideas**

Answer the following questions in the spaces provided.

1. How are force and work related?

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2. How does a lever make work easier?

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3. How do the three classes of levers work?

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4. Explain the most common machine in the human body.

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**Building Vocabulary**

Match each term with its definition by writing the letter of the correct definition on the line beside the term.

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|-------------------------------|--|
| _____ 5. effort force         | a. exerting a force on an object that causes it to move in the same direction as the force |
| _____ 6. machine              |  |
| _____ 7. effort arm           | b. the distance a lever pushes up on an object   |
| _____ 8. mechanical advantage | c. the distance you push down on a lever   |
| _____ 9. fulcrum              | d. a rigid rod that is free to rotate around a fixed point                                 |
| _____ 10. resistance force    | e. the force a lever exerts on an object   |
| _____ 11. resistance arm      | f. a push or pull on an object   |
| _____ 12. work                | g. the force you exert on a lever  |
| _____ 13. effort distance     | h. the distance from the fulcrum to the resistance force                                   |
| _____ 14. resistance distance | i. the number of times a lever increases a force   |
| _____ 15. lever               | j. the fixed pivot point in a lever  |
| _____ 16. force               | k. the distance from the fulcrum to the effort force                                       |
|                               | l. a device that makes work easier   |