

Anticipation Guide: Bones, Joints, and Muscle

Before starting the activity, mark whether you agree (+) or disagree (–) with each statement below.

After completing the activity, mark whether you agree (+) or disagree (–) with each statement below. Under each statement, explain how the activity gave evidence to support or change your ideas.

Before **After**

_____ _____ **1.** You have more bones at birth than you do as an adult.

_____ _____ **2.** Your bones continue to grow until you are about 20 years old.

_____ _____ **3.** Half of the bones in your body are in your hands and feet.

_____ _____ **4.** The minerals in your bones will stay in them forever.

_____ _____ **5.** To move any muscle in your body, you have to consciously think about moving it.

_____ _____ **6.** Your bones are made of dead cells.

Name _____

Date _____

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- _____ 7. The bones in your joints keep them stable.
- _____ 8. If you did not have joints, you would not be able to walk.
- _____ 9. If you did not have muscles, you could still digest food.
- _____ 10. You bend your arm by contracting your bicep. If you relax your bicep, your arm will automatically straighten out.
- _____ 11. Ligaments and tendons have the same function.
- _____ 12. The function of bone marrow is to produce blood cells.
- _____ 13. A bone is an organ made of several tissues, including bone, blood, and nerve tissue.