

Name \_\_\_\_\_ Teacher \_\_\_\_\_ Date \_\_\_\_\_

## Activity 5.3: Organic vs Inorganic Worksheet

Use two different methods to sort the 12 materials on your materials cards into organic and inorganic materials.

**A: Sorting based on properties you can see or the origins of materials.** Sort the materials based on your knowledge of where they came from.

**1. Organic materials.** In this group you should include:

- a. *Foods* or materials made from foods.
- b. *Fuels* or materials made from fuels.
- c. *Bodies of living things* or materials made from the bodies of living things.

List the organic materials here.

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**2. Inorganic materials** include materials that are not foods, fuels, or made from the bodies of living things. List the inorganic materials here.

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**B. Sorting based on bonds in molecules.** Sort the materials based on the kinds of bonds they have in their molecules.

**1. Organic materials.** In this group you should include materials whose molecules have high-energy bonds: C-C and C-H. List the organic materials here.

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**2. Inorganic materials** include materials whose molecules do not have C-C or C-H bonds. List the inorganic materials here.

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**C. Chemical energy.** What is the difference in chemical energy between organic and inorganic materials?

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**D. Unknown liquid.** How could you predict whether an unknown material—a clear liquid—will burn or not? What tests could you do or questions could you ask to predict whether it will burn?

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