

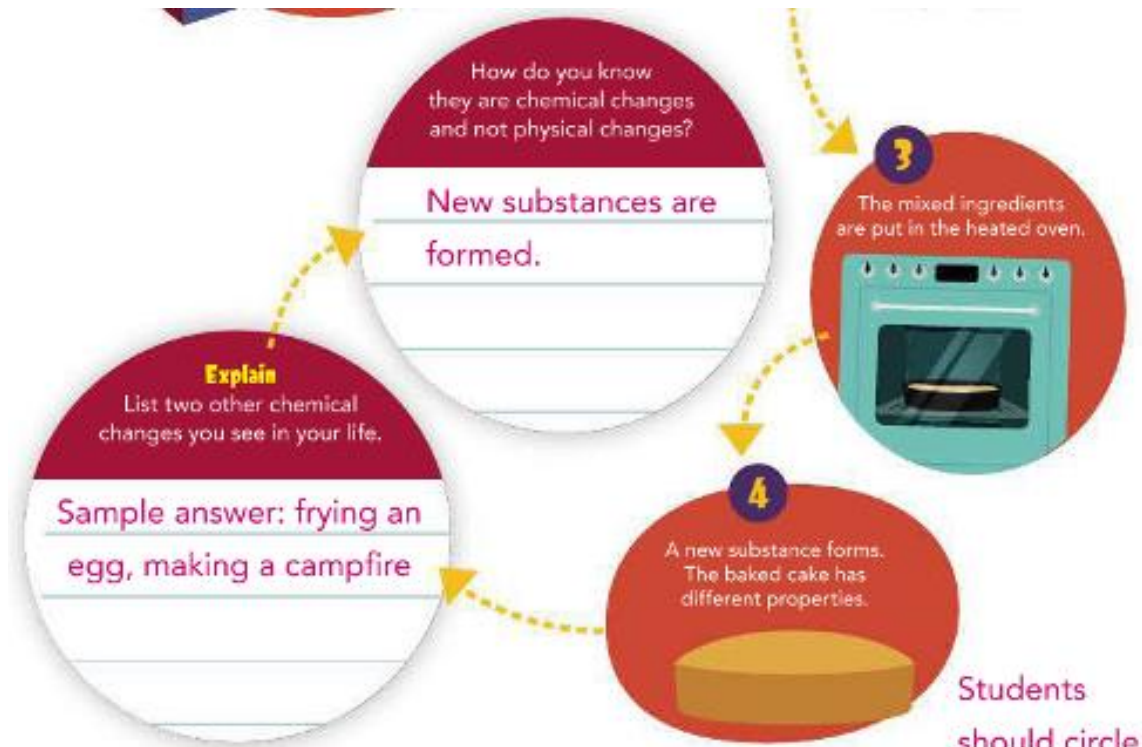
Lesson 3

ANSWER KEYS

Literacy Skill Q's


Describe Explain how matter is changed when engineers make charcoal. When the matter is heated, a change takes place, and a new material is formed: charcoal.

Literacy Skill Q's



Students should circle step 4.

Literacy Skill Q's

 **READING CHECK** Use Evidence from Text If you measure the mass of nails before and after they rust, will the masses be the same? Explain your reasoning.

No. The iron in the nails reacted with oxygen gas and formed a new substance. The mass of the new substance is the same as the mass of the iron plus the mass of the oxygen.

Literacy Skill Q's

matter
onserved?

Read the information for each step to see what happens during the chemical reaction. Write a math equation to model how the masses of the original substances and the new substances compare.

$$108 \text{ g} + 90 \text{ g} = 198 \text{ g}$$

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Write the total mass of the two new substances. (Ignore the mass of the beaker.) Hint: Use the information in step 1.

198 g

Literacy Skill Q's

Identify What two substances is copper oxide made of?

copper + oxygen → copper oxide

Explain Do you think the old penny will have the same mass as the new penny? Explain your reasoning.

No. The old penny will have greater mass because
some of the copper has reacted with oxygen to form
copper oxide.