How Does Matter Change?

Main Idea Changes in matter can be classified as physical changes or chemical changes. A chemical change involves a change in the identity of the matter, whereas a physical change does not.

Fill in the blanks with words from the box below. You may use some words more than once.

chemical bond catalyst	chemical r		physical change mass	
1. A(n)shape, or state of (page E52)	of matter with	no new ma	_ is a change in the size, atter being formed.	
2. A(n) that results in ne		being for	_ is a change in matter med. (page E53)	
3. A chemical char that holds atoms (page A53)			n)and forming new bonds.	
4. A(n) of one or more of	chemical chan	ges. (page	is a specific example e E53)	
5. A change in cold (page E53)	or sometimes	indicates a	a(n)	
6. A(n) energy in the for			_ may also give off e E53)	
7. A(n) (page E55)	A(n) increases the rate of a chemical reaction (page E55)			
8. When matter ch	anges,	is a	lways conserved,	

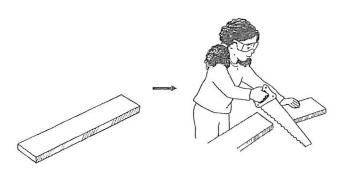
meaning that it is neither created nor destroyed. (page E56)



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Write *true* if the statement is true and *false* if the statement is false.

- 9. New matter forms in a physical change. (page E52)
 - _____ 10. The illustration below shows a physical change. (page E52)



- 11. Chemical bonds are broken and new ones are formed during a chemical change. (page E53)
- _____ **12.** A chemical change may give off heat or light, or involve a color change. (page E53)
- _____ 13. Sugar dissolved in water is an example of a chemical change. (page E54)
- ______14. Lowering the temperature will speed up a chemical reaction. (page E55)
- 15. Regardless of the kind of change taking place in a sample of matter, the amount of matter stays the same.

