**PHYSICAL vs. CHEMICAL CHANGES / PROPERTIES** <http://www.softschools.com/quizzes/science/physical_chemical_changes/quiz382.html>[https://www.proprofs.com/quiz- Your Score \_\_\_\_/10 school/story.php?title=is-it-physical-chemical-change](https://www.proprofs.com/quiz-school/story.php?title=is-it-physical-chemical-change) Your Score \_\_\_\_/10  
<https://www.quia.com/quiz/303980.html> Your Score\_\_\_\_/20

**Physical and Chemical Changes/Properties**

1. Label each process as a physical or chemical change:

a. perfume evaporating on your skin   
b. wood rotting   
c. autumn leaves changing color   
d. a hot glass cracking when placed in cold water   
e. burning sugar   
f. mixing sugar in water   
g. digesting food

2. Which of the following are dependent physical properties (the amount of matter matters)?

a. change of state or phase   
b. volume   
c. weight   
d. density  
e. mass

3. Which of the following are independent physical changes (the amount of matter does not matter)?

a. measuring density  
b. decreasing the volume  
c. increasing the mass   
d. boiling point

e. melting point

4. Which are physical and which are chemical changes?

a. boil   
b. burn (combustion)   
c. condense   
d. crumple (fold up and crush)  
e. melt   
f. rust

5. Which of these physical properties could be used to identify a pure substance?

a. boiling point

b. volume  
c. freezing point  
d. mass  
e. solubility  
f. weight  
g. melting point   
h. density

6. Label each process as a physical or chemical change:

a. Moth balls gradually vaporize in a closet   
b. hydrofluoric acid attacks glass (used to etch glassware)   
c. A chef making a sauce with brandy is able to burn off the alcohol from the brandy, leaving just the brandy flavoring   
d. Chlorine gas liquefies at -35 °C under normal pressure   
e. hydrogen burns in chlorine gas

7. Label each process as a physical or chemical change:

a. fogging a mirror with your breath   
b. breaking a bone   
c. your body mending a broken bone   
d. burning paper   
e. slicing potatoes for fries   
f. mixing sugar with coffee   
g. frying chicken

8. Label each process as a physical or chemical change

a. a nail rusting   
b. paper ripping   
c. wood burning   
d. mixing water and food coloring   
e. food molding (rotting)   
f. writing on paper   
g. dyeing fabric

**Physical and Chemical Changes/Properties Answer Check**

1. . Label each process as a physical or chemical change. *Physical Changes are highlighted, chemical changes are left alone*:

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