Physical or chemical change

The following are either physical or chemical changes. Write ‘P’ for physical changes and ‘C’ for chemical changes.

1. Butter melting. __________________________
2. A glass cracking when heated. __________________________
3. Water exposed to extreme cold becomes ice. __________________________
4. Melting a lead bar. __________________________
5. Burning sugar for caramel. __________________________
6. Dissolving sugar in water. __________________________
7. Tearing a piece of paper. __________________________
8. Slicing cheese. __________________________
9. Condensation of water vapor. __________________________
10. A metal spoon rusting. __________________________
11. Frying fish. __________________________
12. Baking a cake __________________________
13. Acid rain dissolving paint off a wall. __________________________
14. Some acid is added to a salt and a gas is produced. __________________________

Determine if the following processes are physical or chemical changes.

- a. boil -
- b. combustion -
- c. condense -
- d. corrode -
- e. crumple -
- f. ferment - chemical
- g. melt -
- h. rust -
- i. crush -
- j. freeze -
- k. oxidize -
- l. tarnish -
- m. explode -
- n. grind -
- o. rot -
- p. vaporize -
- q. photosynthesis -
- r. sublimation -

What is a chemical change?

What is a physical change?
The following are either physical or chemical changes. Write ‘P’ for physical changes and ‘C’ for chemical changes.

1. Butter melting. ___________________________ p
2. A glass cracking when heated. ___________________________ p
3. Water exposed to extreme cold becomes ice. ___________________________ p
4. Melting a lead bar. ___________________________ p
5. Burning sugar for caramel. ___________________________ C
6. Disolving sugar in water. ___________________________ P
7. Tearing a piece of paper. ___________________________ P
8. Slicing cheese. ___________________________ P
9. Condensation of water vapor. ___________________________ P
10. A metal spoon rusting. ___________________________ C
12. Frying fish. ___________________________ C
13. Baking a cake ___________________________ C
14. Acid rain dissolving paint off a wall. ___________________________ C
15. Some acid is added to a salt and a gas is produced. ___________________________ C

Determine if the following processes are physical or chemical changes.

a. boil - physical
b. combustion - chemical
c. condense - physical
d. corrode - chemical
e. crumple - physical
f. ferment - chemical
g. melt - physical
h. rust - chemical
i. crush - physical
j. freeze - physical
k. oxidize - chemical
l. tarnish - chemical
m. explode - chemical
n. grind - physical
o. rot - chemical
p. vaporize - physical
q. photosynthesis - chemical
r. sublimation - physical

What is a chemical change? It is any change that leads to the formation of new chemical substances.

What is a physical change? This is a change that affects the form of a chemical substance but not its chemical composition.