

Name : _____

Score: _____

Worksheet on Physical Vs. Chemical Properties & Changes

A. Identify the following as being true (T) or false (F).

1. A change in size or shape is a physical change. _____
2. A chemical change means a new substance with new properties. _____
3. An example of chemical change is when water freezes. _____
4. When platinum is heated, then cooled to its original state, we say this is a physical change. _____
5. When milk turns sour, this is a physical change because a change in odor does not indicate a chemical change. _____

B. Identify the following as a physical (P) or chemical (C) change.

1. You leave your bicycle outside in the rain, and it rusts. _____
2. A sugar cube dissolves. _____
3. Scientists break up water into hydrogen and oxygen. _____
4. Burning coal for barbeque. _____
5. Trimming a bush because it has grown too tall. _____

C. Read the following properties and changes. Decide if each one is physical (P) or chemical (C) and whether it is a property (P) or a change (C).

- | | | |
|------------------------------------|--------------------------------|------------------------------|
| boiling point _____ | color _____ | getting a haircut _____ |
| acidity _____ | lighting a candle _____ | texture _____ |
| flammability _____ | combustibility _____ | ice cube melting _____ |
| melting point _____ | glass water condensation _____ | formation of acid rain _____ |
| dry ice (smoking) at concert _____ | density _____ | malleability _____ |

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Worksheet on Physical Vs. Chemical Properties & Changes

Answers

A. Identify the following as being true (T) or false (F).

1. A change in size or shape is a physical change. T
2. A chemical change means a new substance with new properties. T
3. An example of chemical change is when water freezes. F
4. When platinum is heated, then cooled to its original state, we say this is a physical change. T
5. When milk turns sour, this is a physical change because a change in odor does not indicate a chemical change. F

B. Identify the following as a physical (P) or chemical (C) change.

1. You leave your bicycle outside in the rain, and it rusts. C
2. A sugar cube dissolves. P
3. Scientists break up water into hydrogen and oxygen. C
4. Burning coal for barbeque. C
5. Trimming a bush because it has grown too tall. P

C. Read the following properties and changes. Decide if each one is physical (P) or chemical (C) and whether it is a property (P) or a change (C).

- | | | |
|--|------------------------------------|----------------------------------|
| boiling point <u>PP</u> | color <u>PP</u> | getting a haircut <u>PC</u> |
| acidity <u>CP</u> | lighting a candle <u>CC</u> | texture <u>PP</u> |
| flammability <u>CP</u> | combustibility <u>CP</u> | ice cube melting <u>PC</u> |
| melting point <u>PP</u> | glass water condensation <u>PC</u> | formation of acid rain <u>CC</u> |
| dry ice (smoking) at concert <u>PC</u> | density <u>PP</u> | malleability <u>PP</u> |