

## Physical or Chemical?

Check if the characteristic is true for a chemical or physical change.

| Characteristic  | Physical Change | Chemical Change |
|---|-----------------|-----------------|
| A new substance is formed.                                    |                 | x               |
| This type of change can usually be easily undone.             | x               |                 |
| It can be a temporary change.                                 | x               |                 |
| The composition of the substance changes.                     |                 | x               |
| The substance is still the same.                              | x               |                 |
| It is usually irreversible.                                   |                 | x               |
| Light or heat might be given off.                             |                 | x               |
| Matter changes in size or shape.                              | x               |                 |
| It is a permanent change.                                     |                 | x               |
| No change in the composition occurs.                          | x               |                 |
| This can involve a change into a gas, liquid, or solid.       | x               |                 |
| A change in color might occur.                                |                 | x               |
| Molecules change.   |                 | x               |
| This is caused generally by temperature, motion, or pressure. | x               |                 |

Check if the example fits physical or chemical change. Be prepared to explain your answer.

| Example                        | Physical Change | Chemical Change |
|--------------------------------|-----------------|-----------------|
| Frying an egg                  |                 | x               |
| Tearing paper                  | X               |                 |
| Sharpening a pencil            | X               |                 |
| Breaking a window              | x               |                 |
| Rust on a bike                 |                 | X               |
| Igniting fireworks             |                 | X               |
| A rotten tomato                |                 | X               |
| Getting a bad hair cut         | x               |                 |
| Baking a cake                  |                 | x               |
| Lighting a match               |                 | x               |
| Cutting down a tree            | x               |                 |
| Burning firewood               |                 | x               |
| Crumbling cookies              | X               |                 |
| Butter melting on hot pancakes | x               |                 |