

CHEMICAL AND PHYSICAL

CHANGES

LAB WORKSHEET

For each activity, decide if it is an example of a physical or chemical change. Justify your choice:

1. A log burning on a fire

Change:

Justification:

2. Boiling water

Change:

Justification:

3. Frying an egg

Change:

Justification:

4. An iron pipe rusting

Change:

Justification:

5. An iceberg melting

Change:

Justification:

6. Fruit rotting

Change:

Justification:

7. Shredding cheese

Change:

Justification:

8. A pond freezing

Change:

Justification:

Name : _____ Date : _____

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Answers

For each activity, decide if it is an example of a physical or chemical change. Justify your choice:

1. A log burning on a fire

Change: **Chemical**

Justification: **Burning wood turns it into ash, a completely new substance.**

2. Boiling water

Change: **Physical**

Justification: **On boiling, water changes form and becomes steam. No new substance is formed.**

3. Frying an egg

Change: **Chemical**

Justification: **The protein chains in a raw egg are broken down by heat, creating a new substance.**

4. An iron pipe rusting

Change: **Chemical**

Justification: **Rust is a new substance that forms on top of the iron pipe after exposure to air.**

5. An iceberg melting

Change: **Physical**

Justification: **The solid ice melts into water, changing to a new form.**

6. Fruit rotting

Change: **Chemical**

Justification: **Enzymatic reactions cause molecules to change when fruits are rotting.**

7. Shredding cheese

Change: **Physical**

Justification: **The cheese changes shape, but a new substance isn't formed.**

8. A pond freezing

Change: **Physical**

Justification: **The water in the pond freezes to ice, changing state but not form.**

Name : _____ Date : _____