Chemical and Physical Changes

Name: _____ Date: _____ Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. To separate iron filings from sand, you can use a strong _____ to attract the metal pieces.
2. Pouring muddy water through paper traps the dirt and lets clean water pass; this method is called _____.
3. When salt water sits in the sun, the water turns to vapor and salt is left behind through _____.
4. A kitchen sieve can separate flour from rice through a process called _____, which uses a mesh.
5. The clear liquid that passes through a coffee filter is called the _____, while the grounds left behind are residue.
6. The solid material left behind on filter paper after filtering muddy water is called the _____.
7. To separate a mixture of sugar and pebbles, you could dissolve the sugar in water, then _____ to remove pebbles.
8. Separating mixtures is a _____ change because no new substances are formed during the process.
9. Iron filings stuck to a magnet can be wiped off and used again because separation is _____.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Iron filings from sand	→ _____	Sifting
Mud from water	→ _____	Magnet
Salt from saltwater	→ _____	Filtering
Flour from rice grains	→ _____	Evaporation

Part A: Fill in the Blank

Write the missing word or number on each line.

1. To separate iron filings from sand, you can use a strong **magnet** to attract the metal pieces.
2. Pouring muddy water through paper traps the dirt and lets clean water pass; this method is called **filtering**.
3. When salt water sits in the sun, the water turns to vapor and salt is left behind through **evaporation**.
4. A kitchen sieve can separate flour from rice through a process called **sifting**, which uses a mesh.
5. The clear liquid that passes through a coffee filter is called the **filtrate**, while the grounds left behind are residue.
6. The solid material left behind on filter paper after filtering muddy water is called the **residue**.
7. To separate a mixture of sugar and pebbles, you could dissolve the sugar in water, then **filter** to remove pebbles.
8. Separating mixtures is a **physical** change because no new substances are formed during the process.
9. Iron filings stuck to a magnet can be wiped off and used again because separation is **reversible**.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Iron filings from sand	→ **Magnet**	Sifting
Mud from water	→ **Filtering**	Magnet
Salt from saltwater	→ **Evaporation**	Filtering
Flour from rice grains	→ **Sifting**	Evaporation