



Properties of Matter

Name: _____

Date: _____

Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. Density equals mass divided by _____, and it tells how tightly packed matter is.
2. The density of pure water is about 1 gram per cubic _____.
3. An object that floats in water must have a density _____ than 1 g/cm^3 .
4. A graduated _____ is used to measure the volume of a liquid in milliliters.
5. If a block has a mass of 20 g and a volume of 10 cm^3 , its density is _____ g/cm^3 .
6. Two objects can have the same volume but different masses because they are made of different _____.
7. When you place an object in water and it sinks, its density is _____ than water.
8. The water displacement method measures volume by seeing how much the water level _____.
9. Density is a _____ property because it stays the same no matter how much of the substance you have.

Part B: Matching

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

1. Match each item to its correct answer.

Cork	→ _____	Sinks – very high density metal, about 19.3 g/cm^3
Steel nail	→ _____	Floats – density around 0.92 g/cm^3 , lighter than water
Vegetable oil	→ _____	Sinks – density about 7.8 g/cm^3 ,

Answer Key · Properties of Matter · Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. Density equals mass divided by volume , and it tells how tightly packed matter is.
2. The density of pure water is about 1 gram per cubic centimeter .
3. An object that floats in water must have a density less than 1 g/cm³.
4. A graduated cylinder is used to measure the volume of a liquid in milliliters.
5. If a block has a mass of 20 g and a volume of 10 cm³, its density is 2 g/cm³.
6. Two objects can have the same volume but different masses because they are made of different materials .
7. When you place an object in water and it sinks, its density is greater than water.
8. The water displacement method measures volume by seeing how much the water level rises .
9. Density is a physical property because it stays the same no matter how much of the substance you have.

Part B: Matching

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

1. Match each item to its correct answer.

Cork	→ <u>Floats — density around 0.24 g/cm³, much lighter than water</u>	Sinks — very high density metal, about 19.3 g/cm ³
Steel nail	→ <u>Sinks — density about 7.8 g/cm³, much denser than water</u>	Floats — density around 0.92 g/cm ³ , lighter than water
Vegetable oil	→ <u>Floats — density around 0.92 g/cm³, lighter than water</u>	Sinks — density about 7.8 g/cm ³ ,