

## Matter Test Study Guide



**matter** = anything that has mass and takes up space.

**pure substance** = a single kind of matter that is pure, meaning that it always has a specific chemical makeup. Ex.) table salt is always NaCl and sugar is always  $C_{12}H_{22}O_{11}$

**element** = a pure substance that can't be broken down into any other substance. Ex.) oxygen, copper, aluminum, zinc, tungsten, carbon, hydrogen, helium, nitrogen

**atom** = the smallest part of an element. Ex.) one atom of oxygen



**compound** = a pure substance made of two or more elements chemically combined in a set ratio. Ex.)  $H_2O$

**molecule** = the smallest part of a compound Ex.) one molecule of  $H_2O$



**mixture** = made of two or more substances that are mixed together, but not chemically combined. Ex.) trail mix

**homogeneous** = can't see the different parts. Ex.) sugar water

**heterogeneous** = can see the different parts. Ex.) salad



**solution** = an example of a homogenous mixture

**chemical formulas** = tell you which elements and how many atoms of each are in a compound ex.)  $C_{12}H_{22}O_{11}$

**set ratio** = a specific number of atoms of each element to make a compound

**weight** = a measure of the force of gravity on an object; can change- depends on location  
Ex.) earth vs. moon

**mass** = a measure of the amount of matter in an object; **does not change**

- triple beam balance
- SI unit is the kilogram
- scientists prefer to measure by mass rather than weight because mass doesn't change



My **WEIGHT** on Earth is around 560N



My **WEIGHT** on the moon is around 90N



My **MASS** is always 56kg!!

# Study Guide For Matter Test

**United States. Flight Standards  
Service**



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**Promotion Fitness Examination study guide** ,2003      **Chemistry, Student Study Guide** James E. Brady,Fred Senese,2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH<sub>4</sub> from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement      **Study Guide for CTET Paper 1 (Class 1 - 5 teachers) with Past Questions 5th Edition** 9789387045941,2020-05-01      Flight Engineer Knowledge Test Guide ,1995      *Inspection Authorization Knowledge Test Guide* ,1996      **Reference Materials and Subject Matter Knowledge Codes for Airman Knowledge Testing** ,1997      **Parachute Rigger Knowledge Test Guide** United States. Flight Standards Service,1995      Flight and Ground Instructor Knowledge Test Guide ,1994

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