A small amount of a solid fills a large container

Do liquids fill the lowest portion of a container?
Liquids will flow and fill the lowest portion of a container,taking on the shape of the container but not changing in volume. The limited amount of space between particles means that liquids have only very limited compressibility. Do liquids fill the container completely?

Does it matter how big a container is?
It doesn't matterhow big the container is. The molecules spread out to fill the whole space equally. Liquids can only fill the bottom of a container,while gases can fill it entirely. Why large amount gas can be filled in a small container?

Can gases fill a container?
Gases can fill a container of any size or shape. It doesn't matter how big the container is. The molecules spread out to fill the whole space equally. Liquids can only fill the bottom of a container,while gases can fill it entirely.

How does a solid affect the ability to float?
The solid fills the gaps between water molecules,increasing its mass per unit volume (density) and increasing the buoyant forcethe medium will exert of the object. The aim of this experiment is to see how different factors affect the density of objects,and their ability to float. 1. Fill container with water. 2.

What are the characteristics of a solid?
Solids are defined by the following characteristics: If we were to cool liquid mercury to its freezing point of -39oC - 39 o C under the right pressure conditions, we would notice all of the liquid particles would go into the solid state. Mercury can be solidified when its temperature is brought to its freezing point.

How are solids arranged?
Solids usually have their constituent particles arranged in a regular,three-dimensional array of alternating positive and negative ions called a crystal. The effect of this regular arrangement of particles is sometimes visible macroscopically,as shown in Figure 1.4.3 1.4.

a large body of matter with no shape. define volume. the amount of space something takes up. define density. how compact something is. how to find density ... What is the mass of the water if it fills a 10mL container? 10g. A solid is 5cm tall, 3cm wide, and 2cm thick. It has a mass of 129g. What is its density? 4.3g/cm cubed. What is the ...

A large enough volume of liquid or solid could fill a container completely but only the smallest amount of a gas will fill the whole container. Wiki User ? 15 y ago

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Liquids will flow and fill up any shape of container. Solids like to hold their shape. In the same way that a large solid holds its shape, the atoms inside of a solid are not allowed to move around too much. Why does a solid not fill its container completely? In a solid the molecules are very tightly packed.

large container is also a right circular cylinder with a base diameter of 9 cm and a height of 13cm. Determine and state the volume of the small can and the volume of the large container to the nearest cubic centimeter. What is the minimum number of small cans that must be opened to fill the large container? Justify your answer.

They move freely and independently, filling the container they are in.When a solid is placed in a closed jar, its particles are tightly packed together and take up only a small amount of space. On the other hand, gas particles are very energetic and move around rapidly, filling all the available space in the container they are in.

Sample Response: Surface area is the sum of the areas of the faces of a solid. It is measured in square units. Volume is the amount of space taken up by a solid. It is measured in cubic units. Surface area would be used to find the amount of ...

4 UCLES 2020 0625/43/M/J/20 3 In a double-decker bus there are two passenger compartments, one above the other. (a) Fig. 3.1 shows a double-decker bus on a tilted platform. top compartment bottom compartment platform angle Fig. 3.1 The platform is used to test the stability of the bus. The angle the bus makes with the horizontal is gradually increased until the ...

Study with Quizlet and memorize flashcards containing terms like For the following statements, choose from solid, liquid, or gas. A _____ has no fixed shape but takes on the shape of the filled portion of its container. A _____ has a fixed shape that remains rigid. A _____ has no fixed shape and expands, The phase change from a solid to a gas is known as _____., Match ...

Study with Quizlet and memorize flashcards containing terms like Helium is a(n) A) compound. B) heterogeneous mixture. C) element. D) homogeneous mixture. E) electron., 2) Air is a(n) A) compound. B) heterogeneous mixture. C) element. D) homogeneous mixture. E) None of the above., 3) Coins in a piggy bank is a(n) A) compound. B) heterogeneous mixture.

Can small amounts of liquid fill a large container? Liquids will flow and fill the lowest portion of a container, taking on the shape of the container but not changing in volume. The limited amount ...

A small amount of solid fills a large container. Every solid of the same size weighs the same. Solids come in different colors. Every solid has an odor. A liquid has weight. The top of a liquid is always flat. A liquid has a shape of its own. All liquids weigh the same. A liquid can fill outward ...

container or in an open container, pouring a liquid from one container to another, or ladling liquid out of a

container using a spoon. The primary example we will use here is pouring from one container to another. Specifically, we consider the following scenario (figure 1): There is a pitcher, partly full of liquid, and an empty pail.

A solid fills only part of a container due to closely packed particles that define its volume, while a gas can expand to fill the entire container as its freely moving particles spread ...

(a) Solid O 2 has a fixed volume and shape, and the molecules are packed tightly together. (b) Liquid O 2 conforms to the shape of its container but has a fixed volume; it contains relatively densely packed molecules. (c) Gaseous O 2 fills ...

A small amount of liquid bromine is placed in a gas jar containing air. The jar is then sealed. After two minutes, a brown gas is seen just above the surface of the liquid. After two hours, the whole gas jar is full of the brown gas. Explain, using the particle theory, the observations seen in ...

Liquids will flow and fill up any shape of container. Solids like to hold their shape. In the same way that a large solid holds its shape, the atoms inside of a solid are not allowed ...

To fetch a small amount of sulfuric acid (H2SO4), wear appropriate safety gear such as gloves and goggles, then carefully pour the desired quantity from a properly labeled and tightly sealed ...

Study with Quizlet and memorize flashcards containing terms like Which of the following quantities is always constant for an incompressible liquid?, Why is the net force due to the pressure exerted by a fluid perpendicular to the surface it is exerted on?, The parallel component cancels out due to the random orientation of the motion of the atoms and molecules. and more.

Solids, Liquids, and Gases - Matter is basically a substance that takes up space. All matter is a solid, liquid, or gas, and they are called the states of matter. Everywhere a person looks, there are examples of solids: desks, chairs, windows, rocks, tissues, and much more. Examples of liquids: water, milk, juice, chocolate syrup, soda, and others.

Liquids flow when a small force is placed on them, even if only very slowly. Solids, however, may deform under a small force, but they return to their original shape when the force is relaxed. ...

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