Fluid Worksheet

9.

 a) Sand flowing through an hourglass b) A substance that can spread and take a container's shape c) A substance that can be deformed -> (b) d) A fluid that can be a liquid and a solid e) A gas that contains solid particles in suspension 		
11. Match each substance below to the corresponding type of fluid. More than one substance may be associated with a type of fluid. Substance Type of fluid a) Cream 1. Compressible fluid		
b) Molasses c) Propane gas d) Helium 2. Incompressible fluid		
12. Use the following terms to complete the sentences below.		
particles fluid incompressible volume close liquid decreases pressure plunger far fro		
The <u>volume</u> of a gas <u>devices</u> when the <u>flunder</u> of a syringe is pushed down. The <u>factures</u> of a gas are very <u>factors</u> each other. Therefore, gas is a compressible <u>fluid</u> . The volume of a <u>liquid</u> varies very little under <u>pressure</u> because particles are very <u>close</u> to each other. Therefore, liquids are <u>manyfichi diffuids</u> . 13. How does the particle model explain the relationship among pressure, volume and		
temperature of compressible fluids? Complete the following sentences.		
a) When the temperature and number of		
b) At a stable, if fluid volume increases, pressure		
c) If the number of particles is <u>lowered</u> , there are fewer <u>Collisions</u> and pressure is <u>dereased</u> at a stable temperature and constant volume.		
d) By maintaining a stable number of particles, the volume of a <u>Compessible</u> fluid is inversely proportional to the <u>personal</u> .		

10. Circle each statement below that applies to fluids.

14. Look at the following photos.





Find the compressible fluids and the incompressible fluids in these photos. Present your answers in the table below.

COMPRESSIBLE FLUIDS INCOMPRESSIBLE FLUID	
air in ballons Propane	liquid in cups
15. The statements below refer to fluid pressure. /3 Circle each statement that applies to all fluids. Box each statement that applies only to compr Mark with a triangle each statement that applies	ressible fluids.
There can only be one symbol per statement.	
(a) The number of collisions between particles of the	hese fluids determines their pressure.
Pressure exerted by these fluids depends on the not on the total amount of the fluid.	ne depth in the fluid of the reading and
c) Pressure exerted by these fluids depends on the volume of the fluid.	ne number of particles, temperature and
Since particles of these fluids are constantly more environment is the same in all directions.	oving, pressure exerted in a closed
e) Pressure is greatest at the bottom of the contain	ner in which the fluid is placed.
f) Pressure exerted on an object by these fluids d	lepends on depth and density of the