

Forces in Fluids ▪ *Key Terms***Key Terms**

Answer the questions by writing the correct Key Terms in the blanks. Use the circled letter in each term to find the hidden Key Term. Then write a definition for the hidden Key Term.

1. Whose principle states that when force is applied to a confined fluid, an increase in pressure is transmitted equally to all parts of the fluid?

P a s c a l

2. What is the force that acts in an upward direction, against the force of gravity, so it makes an object feel lighter?

b u o y a n t f o r c e

3. What kind of system multiplies by transmitting pressure to another part of a confined fluid?

h y d r a u l i c s y s t e m

4. What is the unit of pressure equal to N/m^2 ?

p a s c a l

5. What is the measurement of how much mass of a substance is contained in a unit of volume?

d e n s i t y

6. What is a substance that can easily flow?

f l u i d

7. Whose principle states that the buoyant force on an object is equal to the weight of the fluid displaced by the object?

A r c h i m e d e s

8. Whose principle states that the pressure exerted by a moving stream of fluid is less than the pressure of the surrounding fluid?

B e r n o u l l i

Key Term: P r e s s u r e

Definition:

Pressure is equal to the force exerted on a surface divided by the total area over which the force is exerted.