

Under Pressure (also **Fluid Pressure Flow**- Pressure tab)

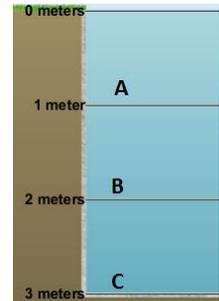
by Trish Loeblein June 2012

Learning goals:

Students will be able to

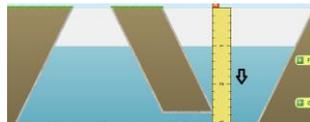
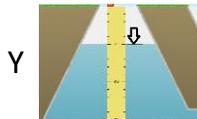
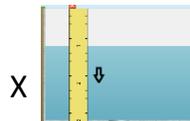
1. Investigate how pressure changes in air and water.
2. Discover how you can change pressure.
3. Predict pressure in a variety of situations

1. Order from lowest to highest pressure.



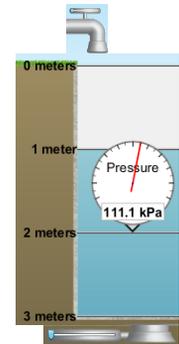
- A. $A < B < C$
- B. $C < B < A$
- C. all are equal

2. Look at the markers.
Order from lowest to highest pressure.



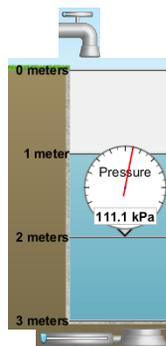
- A. $Y < Z < X$
- B. $Y < X < Z$
- C. $Z < X < Y$
- D. $X < Z < Y$
- E. two are equal

3. What will happen to the pressure if more water is added?

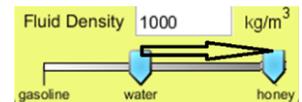


- A. increase
- B. decrease
- C. stay the same

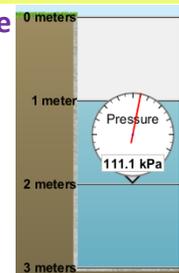
4. What will happen to the pressure if more water is added while the same amount is removed?



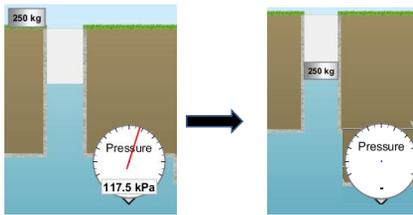
- A. increase
- B. decrease
- C. stay the same



5. What will happen to the pressure if the fluid were changed to honey?



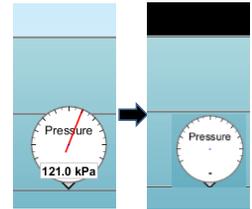
- A. increase
- B. decrease
- C. stay the same



6. If the 250 kg mass was put on the water column, what will happen to the pressure?

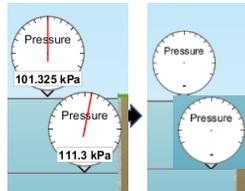
- A. increase
- B. decrease
- C. stay the same

7. If the only change was to remove the air pressure, what will happen to the pressure?

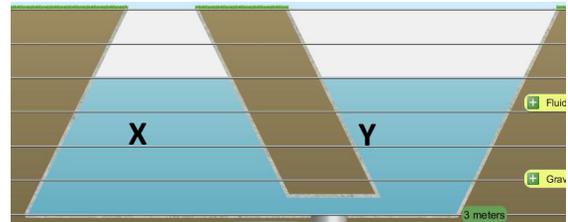


- A. increase by 101.3 kPa
- B. decrease by 101.3 kPa
- C. stay the same
- D. Something else

8. If the only change was to go to a place where the gravity was doubled, what will happen to the pressure?



- A. Both pressures would double
- B. Only the air pressure would double
- C. The air pressure would double, and the water pressure would increase some
- D. Something else



9. How do the pressures at the two locations compare?

- A. $X > Y$
- B. $Y > X$
- C. They are the same