

8.1 Bernoulli's Principle

Total questions: 18

Worksheet time: 22mins

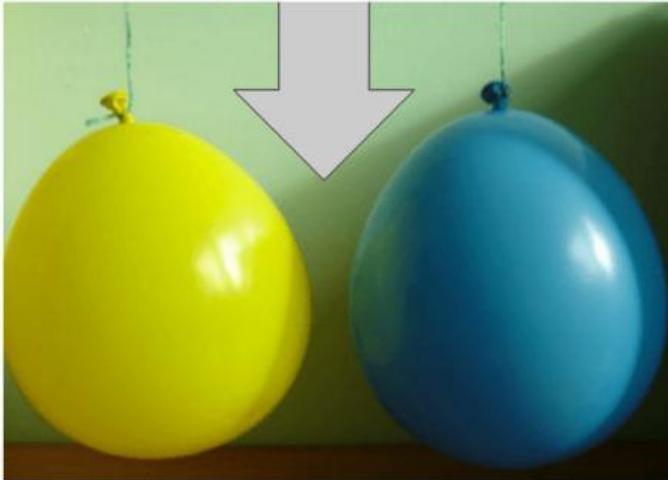
Instructor name: Khaled Barhoom

Name Class Date

1. According to Bernoulli's Principle, when the wind speed is high, wind pressure is _____

- a) high
- b) low
- c) not enough information
- d) None of the above

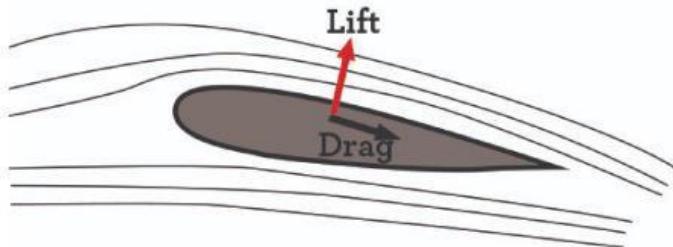
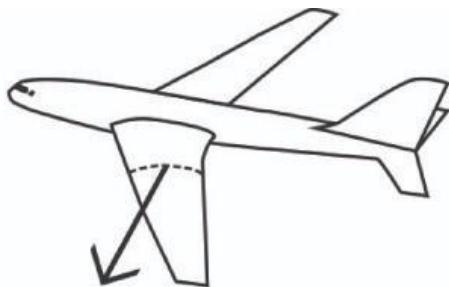
2.



If you blow air between these two balloons, the balloons would touch each other. This is because the pressure between the balloons _____.

- a) Increases
- b) Decreases
- c) Stays the same

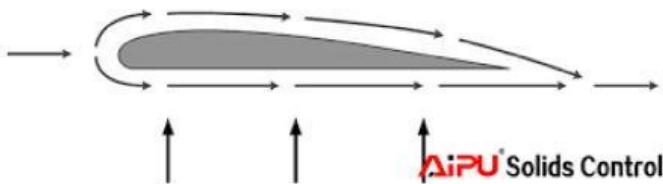
3.



Why is the top of an airplane wing curved?

- a) To create an area of low pressure above the wing
- b) To create an area of high pressure above the wing
- c) To create equal pressure above and below the wing
- d) To make the wing look really cool

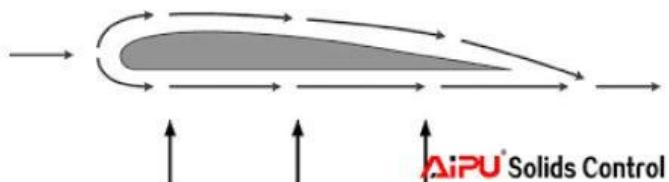
4.



The design of a wing:

- a) causes the air above a wing to move faster than the air below the wing
- b) helps create lift
- c) creates a low pressure area above the wing
- d) all of these answers are correct

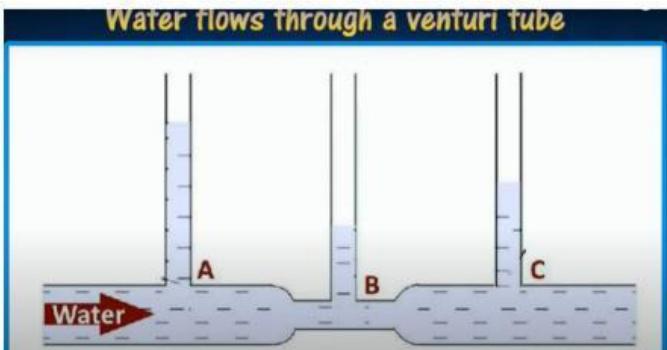
5.



Air travels _____ over the top of a wing.

- a) faster
- b) slower
- c) doesn't move at all
- d) the same speed as

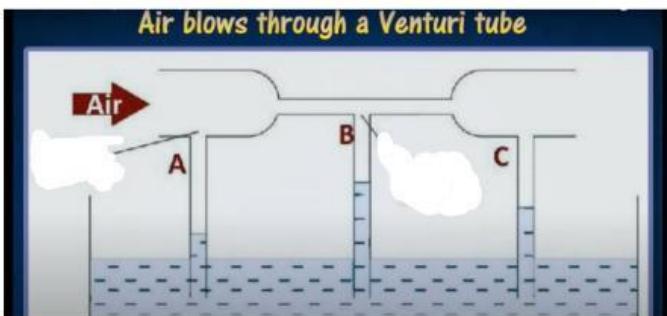
6.



The water flows through a venturi tube. Which part has the lowest pressure and highest velocity?

- a) A
- b) B
- c) C

7.



The air blows through a venturi tube. Select the correct answer.

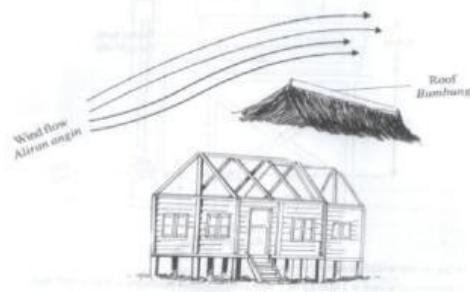
- a) Pressure at C > Pressure at B > Pressure at A
- b) Pressure at B > Pressure at A > Pressure at C
- c) Pressure at A > Pressure at C > Pressure at B
- d) Pressure at A > Pressure at B > Pressure at C

8.

BERNOULLI'S PRINCIPLE

1. Daily situation :

- a) The roof of a house being lifted by strong winds.



The roof of a house being lifted by strong winds. This is because

- a) Higher pressure at the below of roof
- b) Lower pressure at the top of roof
- c) Lower velocity at the top of roof
- d) Higher velocity at the below of roof

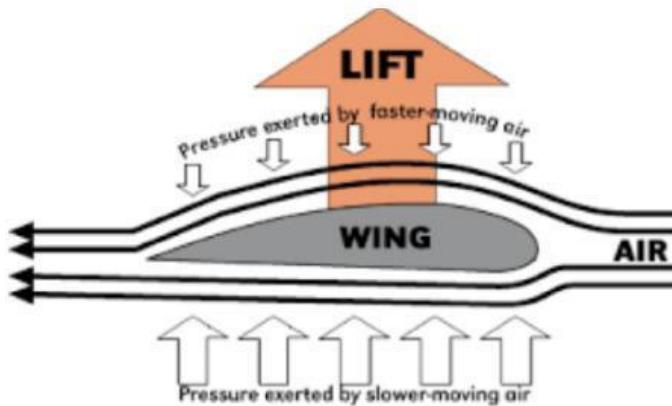
9. According to Bernoulli's Principle, when the wind speed is high, wind pressure is _____

- a) high
- b) low
- c) not enough information
- d) None of the above

10. According to Bernoulli's Principle, when the wind speed is low, wind pressure is _____

- a) high
- b) low
- c) not enough information
- d) None of the above

11.



The faster a fluid moves, the lower the pressure is in the moving fluid compared to the fluid not moving as fast. This is called

- a) Newton's Laws
- b) Bernoulli's Principle
- c) Wright Brothers Principle

12. What is the best depiction of Bernoulli's principle below?

- a) As the pressure of a fluid decreases, the speed increases
- b) As the pressure of a fluid increases, the speed increases
- c) As the pressure of a fluid decreases, the speed decreases

13. Due to Bernoulli's principle, the pressure is _____ above an airplane's wing than below it.

- a) Lower
- b) Higher

14. Bernoulli's Principle is used to explain the concept of _____.

- a) lift
- b) chemical reactions
- c) the engineering design process
- d) None of these things

15. Objects tend to move toward areas of _____.

- a) higher pressure
- b) lower pressure
- c) chemical changes
- d) physical changes

16. If the pressure is **higher** above the wing and **lower** below the wing, what will the airplane do?

- a) lift
- b) sink
- c) Neither lift or sink

17. If the pressure is **lower** above the wing and **higher** below the wing, what will the airplane do?

- a) lift
- b) sink
- c) Neither lift or sink

18. If the pressure is **the same** above the wing that it is below the wing, what will the airplane do?

- a) lift
- b) sink
- c) Neither lift or sink