

Worksheet – 12 Subject: - Science Class: - VIII Teacher: - Mrs. Sandhya Sood

Name: _____ Class & Sec: _____ Roll No. _____ Date: 07.05.2020

Chap: Friction

1. The frictional force exerted by a fluid is called as?

- (a) Brag
- (B) Drag
- (C) Drab
- (D) None

2. Which of the following does not have a streamlined shape?

- (A) Aeroplane
- (B) Bird
- (C) Boat
- (D) Bus

3. Let us suppose Neha has applied some oil on her hands. Which of the following objects will become the most difficult to hold in her hands?

- (a) Earthen cup (Kulhar)
- (b) Glass Tumbler
- (c) Thermocol tumbler
- (d) Wooden cup

4. The use of lubricants makes the surface.

- (A) Smooth
- (B) Rough
- (C) Very Rough
- (D) None

5. What happens when oiling and greasing between moving parts of a machine?

- (a) Increases the friction
- (b) Reduces the friction
- (c) Changes the sliding friction into rolling friction
- (d) Changes the static friction into sliding friction

6. Friction can:-

- (a) reduce the efficiency of the machine
- (b) produce heat
- (c) wears off of the machine parts
- (d) all of these

7. Friction can be increased by which of the following?

- (a) making the surface smooth
- (b) using dry surfaces
- (c) decrease the weight
- (d) All of these

8. The ball travels a longer distance on a

- (a) plastic sheet
- (b) glass sheet
- (c) wood plank
- (d) rough surface

9. Friction due to air and water can be reduced by suitable designing of the shape of the object. This is called as?

- (a) ball bearing
- (b) streamlining
- (c) lubricants
- (d) friction

10. How friction can be reduced?

- (a) polishing
- (b) lubricating
- (c) streamlining the object
- (d) all of the above

11. Why it is very difficult to walk on ice?

- (a) friction is low
- (b) friction is high
- (c) pressure is low
- (d) pressure is high

12. Sliding friction is less than:-

- (a) static friction
- (b) rolling friction
- (c) both (a) & (b)
- (d) none of these

Q2: Fill in the blanks with suitable words.

1. Friction is caused by the ____ of the two surfaces in contact.
2. The body of a fish or a bird is ____.
3. Use of ____ reduces the friction in machines.
4. ____ friction is less than sliding friction.
5. ____ includes both liquids and gases.
6. ____ offers the least force of friction.
7. Force of friction depends on the smoothness or ____ of a surface.
8. ____ helps to write and light a matchstick.
9. A ____ is a machinery part containing small metal balls.

Q3: State whether the following statements are True (T) or False (F)-

1. The use of ball bearing makes the surface rough.
2. Friction is a contact force.
3. It is difficult to walk on the road covered with ice.
4. Friction produces heat which damages the machines.
5. Friction can be reduced by making the surface smooth.
6. Friction causes wearing off of the machine parts.

1. What is friction?

2. Name the force that causes wear tear of tyres of moving vehicles.

3. What do we use on carrom board to reduce friction?

4. Can we eliminate friction completely?

5. What is used to move heavy luggage easily?

6. Give three examples of streamlined objects.

7. Which type of friction comes into play when a book kept on cylindrical pencils is moved by pushing?

8. Why is it more difficult to walk properly on a well-polished floor?

9. What does friction do to the soles of our shoes?

10. What are things like oils, creams and grease called?

11. On applying force, an object start moving when...

1. Frictional force and applied force act in same direction

2 Applied force is less than static force

3. Applied force is equal to static force

4. Applied force is more than static force.

Q12.What is streamlining?

Q13.Write the factors affecting fluid friction?