

WELLAND GOULDSMITH SCHOOL
ANSWERKEY FOR CLASS 7 PHYSICS

WORKSHEET 1

1. LOAD

2. CIRCUIT

3. REPEL

4. FRICTIONAL ENERGY

5. DYNE



The block in Fig A will move as the combined force ($5\text{N} + 7\text{N} = 12\text{N}$) is more compared to the force against it which is 2N . In Fig B force applied on both sides is equal so there will be no movement.

7. Match the columns: -

Column A

Column B

a) Non-contact Force

Gravitational force

b) Like poles

Repel

c) Contact Force

Force of Friction

d) Mass

kg

e) Weight

kgf

f) Friction

wear and tear

8. The molecules of a substance are in Brownian motion. They follow a zigzag path.

9.

	Solids	Liquids	Gases
1)Compressibility	Negligible	Negligibly compressible	Highly compressible
2)Rigidity	Are rigid	Can flow	Minimum rigidity
3)Fluidity	Cannot flow	Can flow	Can Flow
4)Expansion on heating	Minimum	More than solid	Maximum

10. Due to the presence of intermolecular space in water the sugar particles gets adjusted in this space, so the level of water remains same.

Study the given information and answer the questions:

1. Area=length x breadth

$$=80 \times 45$$

$$=3600 \text{m}^2$$

2. $1 \text{cm}^2 = \underline{\quad .0001 \quad} \text{m}^2$

3. Litres

ANSWER KEY –WORKSHEET II

1. The earth itself behaves as a magnet. Therefore a freely suspended magnet always points towards in the north-south direction because the north pole of the suspended magnet attracts the south pole of the earth's magnet which is the geographical north pole of the earth and the south pole of the suspended magnet attracts the north pole of the earth's magnet which is the geographical South Pole.

2. Ways to demagnetize a magnet: -

- a) Heating the magnet
- b) Placing the magnet in reverse field
- c) Hammering the magnet

3. Compass

4. Any of the scales can be used to measure 10cm. We can see that in case of every broken scale there is an interval of 10 cm length on the unbroken sides.

For scale A,

$$13-0=13 \text{cm}$$

For scale B,

$$15-3=12 \text{cm}$$

For scale C,

$$15-3=12 \text{cm}$$

Thus, we can use any unbroken side of the scale to measure the length.

5. Match the following: -

A	B
1. Length	Meter
2. Mass	Kilogram
3. Area	Square meter
4. Volume	Cubic meter

6. While processing the output from the input some energy is always lost due to friction, heat, sound, and other factors thus the efficiency of a machine is always less than 100%.

7. A will get the most accurate measurement as the measuring tape is longer than the table and it can be measured in one go whereas for others there will be multiple measurements which can lead to an error.

8. Flight simulator

9. Filament

10. Metals contracts when cooled.

Read and answer: -

1. Circular motion is a motion where an object moves around in a circular path so when earth moves around sun in its own orbit it is circular motion .In rotatory motion an object moves in a circle about an axis so earth's motion around its own axis is rotatory.

2. Rotatory motion.

3. Motion of a man walking on the straight road

4. Both c and d

5. Match the following: -

Column A	Column B
a) Falling stone	linear motion
b) Movement of the minute hand of a clock in one-hour	Circular motion
c) Wheel of a sewing machine	Rotatory Motion
d) Motion of a swing	Oscillatory Motion
e) Javelin thrown by an athlete	Curvilinear motion