WELLAND GOULDSMITH SCHOOL ANSWER KEY FOR **CLASS** VIII PHYSICS

Worksheet: 1

- 1. a) Melting Point
 - b) Molecule
 - c) Mass = Density × Volume
 - d) 76cm of Hg
 - e) 3×10⁸ m/s
 - f) More
 - g) 0.5 hertz
 - h) 0 ° C
- 2. 1. Molecules Matter
 - 2.100°C Water Boils
 - 3.0°C Water Freezes
 - 4. At all temp Evaporation
 - 5. Camphor Changes from solid to gas

3. Across

Down

6. Electrostatic	1. Pressure
7. Magnetic	2. Friction
9. Contact	3. Newton
10. Fluid	4. Gravitational
	5. Balanced
	6. Area

- 4. a) Gases
 - b) Boiling
 - c) Volume
 - d) The atmospheric pressure decreases
 - e) Dispersion
- 5. a) K.E b) P.E c) P.E d) K.E e) K.E f) K.E g) P.E h) K.E i) P.E j) K.E
- 6. Because the water seeps out on surface through the pores in the pot and it evaporates. The heat required for evaporation is taken from water inside the pot which gets cooled.
- 7. V Violet
 - I Indigo
 - B Blue
 - G Green
 - Y Yellow
 - O Orange
 - R Red

- 8. 98°F 78°C C/5=(F-32)/9 = 78 + 273 C/5= (98-32)/9 = 351 K C/5=66/9 C= (66×5)/9= 36.66°C = 36.67°C
- 9. i) We should not touch switches with wet hands.ii) Appliances should be properly earthed.
 - iii) The wiring used must have proper insulation.
 - iv) We should not try to repair an appliance while it is in use.
- 10. Stringed Instruments: Piano, Guitar, Violin Wind Instruments : Flute, Shehnai

Worksheet 2

 John Dalton – Dalton's Atomic Theory Albert Einstein – Theory of Relativity J.J. Thomson – Discovery of Electron Rutherford – Atomic Model Isaac Newton – Laws of Motion, Basic Principles of Modern Physics Georg Simon Ohm – Ohm's Law Max Planck – Quantum Theory of Energy Archimedes – Principles of Flotation C.V. Raman – Raman Effect for Scattering of Light Homi.J. Bhabha – Quantum Theory and Cosmic Radiation Meghnad Saha – Thermal Ionization Theory Satyendra Nath Bose – Worked on Quantum Mechanics, Discovered Boson Particle.

- 2. i) Repel, attract
 - ii) Conductor, insulator
 - iii) Repulsion
 - iv) Iron
 - v) Excess
 - vi) Insulators
 - vii) Calorimeter
 - viii) Spectrum
- 3. i) Convex Mirrorvi) Concave Mirrorii) Pendulum of a clockvii) Cooking Utensilsiii) Relative Densityviii) Ampereiv) Sublimationix) Sharp Cutting Edgev) I/Tx) Maximum Displacement

- 4. i)Electrical energy Light energy
 ii)Electrical energy Mechanical energy
 iii)Sound energy Electrical energy
 iv)Heat energy Mechanical energy
 v)Electrical energy Sound energy
- 5. i)No work done ii)Work done iii)No work done iv)Work done v)No work done
- 6. i)Vaporization ii)Evaporation
- 7. Spirit evaporates quickly even in room temperature. To prevent from evaporation, they are stored in closed airtight bottles.
- 8. Density of ice is less than density of water. Density of ice is 0.9 g/cm³ while density of water is 1 g/cm³.
- 9. i) Sink (density of the body is more than density of water) ii) Float (density of the body is less than density of water)
- 10. i) Dentist Mirror Concave Mirror ii) Street Light Reflector – Convex Mirror
- 11. When plastic comb is rubbed with dry hair, it acquires charge due to static electricity and so it attracts piece of paper which it uncharges.
- 12. i) Do not stand under a tree.
 - ii) Take out the plugs of TV sets, computers.