

YEAR PLAN 2018 – 2019

GRADE: VIII PHYSICS

The academic year is divided into **two** sessions

Session One: June 2018 to October 2018

Session Two: November 2018 to March 2019

Continuous assessments: June, July, August, September ,November, December , January, February

Summative Assessment I: October 2018

Summative Assessment II: March 2019

Please check the **index page** in the notebooks for Continuous Assessment marks.

AIM: Students should understand that the principles of physics are applicable to their everyday lives.

ENDURING UNDERSTANDING: To understand and appreciate how things work.

OBJECTIVES: To

- learn and understand the terms, facts, concepts, definitions, laws and processes of Physics.
- develop the skill to handle apparatus, record observations and draw diagrams, graphs, etc.
- be able to read data and draw conclusions and solve problems.

Project:

SA I Experiment to verify Ohm’s law.

SA II Experiments based on pressure.

Session One: June 2018 to October 2018

DURATION	TOPICS	SPECIFIC LEARNING OBJECTIVES	ACTIVITIES	RESOURCES
June	Heat	<ul style="list-style-type: none"> • Recalls boiling and evaporation. • Understands thermal expansion of solids, liquids and gases. • Applies thermal expansion in daily life. 	Experiment to demonstrate thermal expansion.	Frank New Certificate Physics Class 8
July	Electricity	<ul style="list-style-type: none"> • Understands the concept of static electricity and types of charges. • Classifies conductors and insulators. • Understands different methods of charging an object. • Comprehends the working of gold leaf electroscope and lightning conductor. 	Experiments to show static electricity.	Frank New Certificate Physics Class 8
August	Current Electricity	<ul style="list-style-type: none"> • Differentiates primary cell and secondary cell. • Recalls the symbols in circuit diagrams . • Understands the concept of potential difference and resistance. 	Experiment to verify Ohm’s law.	Concise Physics Part I for class IX
September	Reflection of Light	<ul style="list-style-type: none"> • Recalls reflection and laws of reflection. • Solves numerical problems. 	Draws ray diagrams for the image formation by plane mirror and spherical mirror.	Concise Physics Part I for class IX
October	Revision	Summative Assessment-1		

Session Two: November 2018 to March 2019

November	Sound	<ul style="list-style-type: none"> • Comprehends production and propagation of sound. • Understands the terms related to wave motion and the factors affecting the speed of sound. • Distinguishes different frequencies of sound. 	Experiments to show the production of sound.	Concise Physics Part I for class IX
December	Magnetism	<ul style="list-style-type: none"> • Understands induced magnetism, earth's magnetic field and neutral points. • Draws magnetic field lines. • Comprehends electromagnet and its uses. 	Experiment to show induced magnetism. Draws magnetic field lines.	Concise Physics Part I for class IX
January	Pressure in fluids	<ul style="list-style-type: none"> • Understands the concept of thrust, pressure and fluid pressure. • Applies Pascal's law in daily life. • Comprehends the concept of atmospheric pressure and its measurement. • Solves numerical problems in Pascal's law and atmospheric pressure. 	Experiments based on pressure.	Concise Physics Part I for class IX
February	Heat and Energy	<ul style="list-style-type: none"> • Recalls heat and temperature. • Understands the concept of anomalous expansion of water and its consequences. • Classifies different sources of energy. • Understands the concept of green house effect and global warming. 	Seminar session.	Concise Physics Part I for class IX
March	Revision	Summative Assessment-2		
<i>Facilitators' names: Mrs.Rekha S, Mrs. Renjini Sanjay and Mrs .Chinnamma George</i> <i>Textbook: Frank New Certificate Physics Class 8 and Concise Physics Part I for class IX</i>				