Pakistan Urdu School- Kingdom of Bahrain

Curriculum Implementation Plan for 2018-2019

SUBJECT- PHYSICS **Grade IX**

UNIT 1 – PHYSICAL QUANTITIES AND MEASUREMENT					
No.	**Month/Week**	**Starting Date**	**Topics from Textbook or Others**	**National Curriculum References**	**Total Periods**
1.	**2nd , 3rd, 4th week of APRIL**	9.4.18	Introduction to physics	**Standard 1** Students will be able to develop a sense of curiosity and wonder about the natural world and demonstrate an increasing awareness that this has lead to new development in science and technology	**10**
2.			Physical quantities and international system of units		
3.			Prefixes, scientific notation.		
4.			Measuring instruments – Vernier calipers and screw gauge		
5.			Significant figures		

UNIT 2 – KINEMATICS					
No.	**Month/Week**	**Starting Date**	**Topics from Textbook or Others**	**National Curriculum References**	**Total Periods**
1.	**1st,2nd,3rd week of may**	1.5.18	Rest and motion and its types	**Standard 1** Students will be able to develop a sense of curiosity and wonder about the natural world and demonstrate an increasing awareness that this has lead to new development in science and technology	**10**
2.			Terms associated with motion		
3.			Scalars and vectors		
4.			Graphical analysis of motion		
5.			Equations of motion		
6.			Motion due to gravity		

MID TERM EXAM (MAY)

UNIT 3 – DYNAMICS					
No.	**Month/Week**	**Starting Date**	**Topics from Textbook or Others**	**National Curriculum References**	**Total Periods**
1.	**4th week of MAY and 1st week of JUNE**	27.5.18	Force , inertia and momentum	**Standard 1** Students will be able to develop a sense of curiosity and wonder about the natural world and demonstrate an increasing awareness that this has lead to new development in science and technology	**10**
2.			Newton's laws of motion		
3.			Law of conservation of momentum		
4.			Uniform circular motion		
5.			Friction		

UNIT 4 – TURNING EFFECT OF FORCES					
No.	**Month/Week**	**Starting Date**	**Topics from Textbook or Others**	**National Curriculum References**	**Total Periods**
1.	**4th week of AUGUST** **And** **1st , 3rd week of SEPTEMBER**	28.8.18	Addition of forces	**Standard 4** Students will be able to explain and describe the common properties, forms and interactions of energy and matter and their transformations and applications in physical system .	**12**
2.			Resolution of forces		
3.			Moment of a force		
4.			Principle of moments		
5.			Center of mass		
6.			Couple		
7.			Equilibrium		

1ST TERM EXAM (SEPTEMBER)

UNIT 5 – GRAVITATION					
No.	**Month/Week**	**Starting Date**	**Topics from Textbook or Others**	**National Curriculum References**	**Total Periods**
1.	**4th week of SEPTEMBER And 1st week of OCTOBER**	23.9.18	Law of gravitation	**Standard 1** Students will be able to develop a sense of curiosity and wonder about the natural world and demonstrate an increasing awareness that this has lead to new development in science and technology	**6**
2.			Measurement of earth		
3.			Variation of g with altitude		
4.			Motion of artificial satellite		

UNIT 6 – WORK AND ENERGY					
No.	**Month/Week**	**Starting Date**	**Topics from Textbook or Others**	**National Curriculum References**	**Total Periods**
1.	**2nd and 3rd week of OCTOBER**	14.10.18	Work and energy	**Standard 4** Students will be able to explain and describe the common properties, forms and interactions of energy and matter and their transformations and applications in physical system	**8**
2.			Types of energy – kinetic and potential		
3.			Forms of energy		
4.			Interconversion of energy		
5.			Major sources of energy		
6.			Efficiency and power		

UNIT 7– PROPERTIES OF MATTER					
No.	**Month/Week**	**Starting Date**	**Topics from Textbook or Others**	**National Curriculum References**	**Total Periods**
1.	**4th week of October**	28.10.18	Kinetic molecular model of matter	**Standard 4** Students will be able to explain and describe the common properties, forms and interactions of energy and matter and their transformations and applications in physical system	**15**
2.	**and**		Density		
3.	**1st ,2nd,3rd**		Pressure and Atmospheric pressure		
4.	**week of NOVEMBER**		Pressure inside a liquid		
5.			Principle of flotation using up thrust		
6.			Elasticity		
2ND TERM EXAM (NOVEMBER AND DECEMBER)					

UNIT 8 – THERMAL PROPERTIES OF MATTER					
No.	**Month/Week**	**Starting Date**	**Topics from Textbook or Others**	**National Curriculum References**	**Total Periods**
1.	**1st , 2nd week of JANUARY**	2.1.19	Temperature and heat	**Standard 4** Students will be able to explain and describe the common properties, forms and interactions of energy and matter and their transformations and applications in physical system	**8**
2.			Thermometer		
3.			Specific heat capacity		
4.			Latent heat of fusion and vaporization		
5.			Thermal expansion		
6.			Evaporation		

UNIT 9 – TRANSFER OFTHERMAL ENERGY					
No.	**Month/Week**	**Starting Date**	**Topics from Textbook or Others**	**National Curriculum References**	**Total Periods**
1.	**3rd, 4th week of JANUARY**	20.1.19	Three process of heat transfer- conduction , convection and radiation	**Standard 4** Students will be able to explain and describe the common properties, forms and interactions of energy and matter and their transformations and applications in physical system .	**6**
2.			Thermal conductivity		
3.			Convection currents		
4.			Emission and absorption		
5.			Greenhouse effect		
REVISION					

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