

CLASS: YEAR 8

SUBJECT: PHYSICS

TEACHER : Thakshila Damayanthi

Month	No. of Periods	Unit No.	TOPIC /DETAILS	INTENDED LEARNING OUTCOMES	Remarks
<b>September</b>			<b>School Reopens – 1<sup>st</sup> Term</b>		
<b>Week 1</b>	1	<b>4</b>	<b>Speed</b>		
		4.1	How fast?	Calculate the speed of moving objects	
<b>Week 2</b>	1	4.1	How fast?	Explain what is meant by average speed	
	1	4.2	Taking accurate measurements	Explain the difference between accuracy & precision	
<b>Week 3</b>			EID HOLIDAYS		
<b>Week 4</b>	1	4.2	Taking accurate measurements	Define the reaction time Practice to measure time precisely	
	1	4.3	Distance-time graphs	Represent a journey on a distance-time graph	
<b>Week 5</b>	2	4.3	Distance-time graphs	Represent a journey on a distance-time graph	
<b>October</b>					
<b>Week 6</b>	1		<b>Unit test</b>		
<b>Week 7</b>	2	4.4	Acceleration	Describe how to calculate acceleration	
				Explain what is meant by deceleration	
<b>Week 8</b>	2	4.4	speed-time graphs	Explain speed-time graphs	
<b>Week 9</b>	2	4,5	Presenting results in tables & graphs	Present results in tables, charts & graphs Explain what a continuous variable is	
<b>November</b>					
<b>Week 10</b>	2	4.6	Asking scientific questions	Recognise scientific questions Describe how explanations are developed Discuss the relative motion	
<b>Week 11</b>	2	4.7	Unit review Unit test		
<b>Week 12</b>	2	<b>5</b>	<b>Sound</b>		
		5.1	Sound, variations,& energy transfer	Describe how sound waves are produced Explain how sound waves travel	
<b>Week 13</b>	2	5.2	Detecting sounds	Describe how the ear detects sound Explain how hearing of humans can be damaged Describe how a microphone works	

<b>Week 14</b>	2		Revision		
<b>December</b>					
<b>Week15</b>	1		Revision/ 1 <sup>st</sup> Term Examinations		
<b>Week16</b>			1 <sup>st</sup> Term Examinations		
<b>Week17</b>			Paper correction/ Distribution of reports		
<b>Week18</b>			Vacation		
<b>January 2017</b>					
<b>Week19</b>			Vacation		
<b>School Reopens- 2ndTerm</b>					
<b>Week 20</b>	2	5.3	Loudness and the decibel scale	State the unit of sound intensity, or loudness Describe some of the risks of loud sounds & how to reduce the risks	
<b>Week 21</b>	2	5.4	Loudness, amplitude, and oscilloscopes	State the properties of waves Describe what affects the loudness of a sound Interpret waveforms shown on an oscilloscope	
<b>Week 22</b>	2	5.5 5.6	Pitch & frequency Making simple calculations	Describe the link between pitch & frequency Describe some of the differences between the range of hearing in humans & animals State why musical instruments are distinct Make calculations involving the speed of sound	
<b>Week 23</b>	2	5.7	Echoes  Unit test	Discuss the reflection and absorption of sound Describe how echoes are formed Explain how echoes can be used	
<b>February</b>					
<b>Week 23</b>	1	<b>6</b>	<b>Light</b>	Describe that light transferring energy	
<b>Week24</b>	2	6.2	How do we see things?	Describe what happens when light travels from a source	
<b>Week25</b>	2	6.3	The speed of light	State how fast light travels Recognise how astronomers use the speed of light to describe distances	
<b>Week 26</b>	2	6.4	Reflection	Describe how an image in a plane mirror is formed Describe the differences between the object & the image	
		6.5	Making measurements: the law of reflection	State the law of reflection Use the law of reflection Describe how to make accurate measurements in experiments with light rays	
<b>Week 27</b>	1	6.6	Refraction: air & water	Explain what we see when light is refracted as it goes into water Explain why light is refracted	

**March**

<b>Week27</b>	1	6.7	Refraction: air & glass	Use scientific knowledge to explain predictions Describe what happens when light goes through a glass block Explain total internal reflection	
<b>Week28</b>	2	6.8	Dispersion <b>Unit test</b>	Explain how a spectrum of light is produced Explain why we see rainbows	
<b>Weke29</b>	2	6.9	Colour	Explain what happens when light of different colours is mixed together Explain how filters work	
		6.10	Presenting conclusions: more on colour	Explain why coloured objects look coloured in white light Explain why coloured objects look different colours in different colours of light Describe how to present conclusions in appropriate ways	
<b>Week 30</b>	1		Revision/ <b>2<sup>nd</sup> Term Test</b>		
<b>Week 31</b>			<b>2<sup>nd</sup> Term Test</b>		
<b>April</b>					
<b>Week32</b>			<b>Paper correction</b>		
<b>Week33</b>			<b>Vacation</b>		
<b>School Reopens- 3<sup>rd</sup> Term</b>					
<b>Week34</b>	1	6.11	Asking scientific questions	Recall that there can be different explanations for the same observations Explain why some explanations are accepted & others are not State that explanations change as new observations are made	
<b>Week35</b>	2	6.12	Lasers	Describe how laser light is different from sunlight Describe some of the uses of lasers	
<b>May</b>					
<b>Week36</b>	2	7 7.1	<b>Magnetism</b> The properties of magnets	Describe the properties of magnets State which materials are magnetic Use a model to explain the behavior of magnetic materials	
<b>Week37</b>	2	7.2	Magnetic fields	Describe what a magnetic field is Explain why compasses point north Discuss the Earth's magnetism and navigation Carry out simple experiments to show the shape of a magnetic field around a bar magnet	
<b>Week38</b>	1	7.3	Electromagnets	Describe how to make an electromagnet Describe how to change the strength of an electromagnet	
	1		Unit test		
<b>Week39</b>	2	7.4	Identifying & controlling variables	Describe the differences between dependent & independent variables State the use of controlling variables	
<b>Week40</b>	2	7.5	Using electromagnets	Describe some uses of electromagnets Explain why electromagnets are used insted of permanent magnets	

<b>June</b>				
<b>Week41</b>	2		<b>Stage 8 Review</b>	
<b>Week42</b>	1		<b>Revision/ 3<sup>rd</sup> Term Test</b>	
<b>Week43</b>			<b>3<sup>rd</sup> Term Test</b>	
<b>Week44</b>			<b>Paper corrections</b>	
<b>July</b>				
<b>Week45</b>			<b>Distribution of reports</b>	
<b>Week46</b>			<b>Summer vacation</b>	