



**Gems Akademia**  
Global School  
**Summer Holiday Homework (2022-23)**

**Grade: IX CAIE**

<u>Subject</u>	<u>Work</u>
<b>Mathematics</b>	Numbers, Algebra 1
<b>FLE</b>	<p><b>Project:</b> Write <b>EITHER</b> a guidebook extract about your hometown, include details about topography, population, culture, history, tourism and any <b>relevant detail</b> you feel is important.</p> <p><b>OR</b> Watch the film “<b>The Terminal</b>” starring <b>Tom Hanks</b> on <b>Netflix</b>. Imagine yourself in a similar situation; keep a daily journal for <b>30 days</b>. The journal must reflect your mood, outlook, the challenges faced, the challenges overcome.</p>
<b>Physics</b>	<p>1. Make a paper model of the Leaning Tower of Pisa . The Italian scientist Galileo Galilei have experimented with falling bodies from this tower. Write the laws of falling bodies. i) The time for falling through a distance in vacuum doesn't depend on the mass or shape of the body. ii) The height through which a body falls is directly proportional to the square of the time of fall. ( <math>h = \frac{1}{2} gt^2</math> ) iii) The velocity acquired by the falling body is directly proportional to the time of fall ( <math>v = g t</math> ) <math>g</math> = acceleration due to gravity <math>= 9.8 \text{ m/ s}^2</math>. Make table and graphs to explain the laws of falling bodies. <b>OR,</b> 2. STOPPING DISTANCE. Take different spring operated toys and a number of rough surfaces (wooden plank, floor, s, tough glass plate, Iron sheet, etc. ) . Measure stopping distance in each case. Make a table. You may try the same experiment with a bicycle. [ Reference : Text book, Other reference books, Teacher's notes and instructions. Your thoughts and efforts. ]</p>
<b>Chemistry</b>	Make a model representing the molecular arrangements in different states of matter.

<b>Biology</b>	Grade IX CAIE-It's a computer model based project as extension of their chapter - Movement in and out of cell.
<b>Accounting</b>	Few short question and answers on the basic concepts and terms in accounting
<b>BSt.</b>	Case study on Division of Labour at Mc.Donald's from text book and some questions related to it to be solved.
<b>Bengali</b>	<b>একটি সম্পূর্ণ চার্ট পেপারে</b> একটি তুলনামূলক প্রবন্ধ রচনা - 'বিয়েবাড়ির সেকাল-একাল'
<b>Hindi</b>	Worksheet on comprehension will be given.
<b>PE</b>	 <p>Q1. While executing this skill of Badminton what are the bones and joints involved? Mention their types. Q2. Describe the movements around the joints -knee, Hip, shoulder and wrist while executing this skill. Q3. Explain the structure of Synovial joint.</p>
<b>ICT</b>	<p>Topic: Create a PowerPoint presentation on “<b>Impact of ICT in daily life</b>”.</p> <p>The presentation should contain the following points.</p> <ul style="list-style-type: none"> <li>• Various areas of application of ICT (Banking, Education, Business, Health Services, Government Sectors).</li> <li>• Benefits of ICT.</li> <li>• Various negative impacts of ICT use.</li> <li>• Various health issues related to use of ICT.</li> <li>• Various safety precautions to be taken to avoid health issues while using ICT.</li> <li>• Conclusion.</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• Use suitable pictures and diagrams in support of the topics.</li> <li>• Use the necessary formatting features available in PowerPoint while creating the presentation.</li> </ul>