



مدرسة القديسة مريم الكاثوليكية الثانوية - دبي  
ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

**YEAR 12 – STATISTICS(Week 2)2021-2022**

<b>Subject</b>	<b>Mathematics(Statistics)</b>
<b>Class/ Section</b>	<b>Year 12 – Batch A, B and C</b>
<b>Week</b>	<b>5<sup>th</sup> September to 9<sup>th</sup> September</b>
<b>Work send to students by</b>	<b>Google classroom</b>
<b>Total number of lessons per week</b>	<b>3</b>
<b>Units</b>	<b>Ch 1 - Data Collection (Unit 1.1 to 1.5)</b>
<b>Lessons 1,2,3 –Live Zoom lesson along with face to face instruction for students present on a particular day</b>  <b>Work will be assigned in google classroom which will be matched to the students ability.</b>	<b><u>Specific Learning objectives</u></b> <ul style="list-style-type: none"><li>• To understand ‘population’, ‘sample’ and census and comment on the advantages and disadvantages of each.</li><li>• To understand the advantages and disadvantages of simple random sampling, systematic sampling and stratified sampling.</li><li>• To understand the advantages and disadvantages of quota sampling and opportunity sampling.</li><li>• To understand the large data set and how to collect data from it. Identify types of data and calculate simple statistics.</li></ul>
<b>Tasks/Activities</b>	<b><u>Specific Intended Learning Outcomes</u></b> Students will be able to <ul style="list-style-type: none"><li>• Understand the methods of data collection and to use them in making conclusions about the respective area of study.</li><li>• Know what census and sample is and its use in real life.</li></ul>

**Assessment Criteria/  
Essential questions**

- Decide the most suitable sampling method and to use the data for further calculations.
- Understand the need non random sampling and decide method to be used.
- Learn Large Data set and the different weather variables. The data set consists of weather stations over two set periods of time.

Some of these questions will be based on weather data from the Large data set provided by Edexcel.

The Teacher would introduce sampling methods –random and non random. Also introduce Large data Set and explain the variables included. Students will explore other examples of sampling methods and understand its use in real life.

Complete the questions assigned from the Statistics 1 text book in the notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.

Essential Question that are according to the Pearson edexcel specification

e.g Paper3-Statistics- June 2018 question 4.

For example, assessment objectives expected by the board with respect to the above question is listed below.

AO1: accurately recall facts, terminology and definitions

AO2: explain their reasoning

**Resources**

1. Edexcel Statistics & Mechanics Year 1/AS textbook
2. Ppt on the topic
3. <https://www.physicsandmathstutor.com>
4. <https://www.drfrostmaths.com/>