Grade 11 **PROJECT ANNOUCEMENT AND SUBMISSION DATES**
SECOND SEMESTER
AY 2020 - 2021

المدرسة الأهلية
AHLIA SCHOOL
BAHRAIN

Grade	Subject	Project Description	Announcement date	Submission date
11	Mathematics	**Project Title: The Population Puzzle** Every day you encounter statistics cited in news broadcasts, articles, and advertising. Those statistics are calculated by statisticians who collect, analyze, interpret, and present data in fields such as medicine, marketing, and population. They use these data to make predictions that help in making decisions regarding various aspects of our lives. This information informs our daily choices and the choices of civic leaders. **Overview** In this project, students will work as statisticians to research and predict population growth for an area. **Project Introduction** Objective Use exponential and logarithmic functions to model data and make predictions. Procedure: 1.Research a career as a statistician. Explore some of the aspects of the career such as job functions, required education, and potential earnings 2. Choose a city, county, or state that you are interested in. Research population trends in the area that you have chosen. 3. Research population models. What types of models are most common? Are some better than others? 4.Research how population trends impact civic decisions such as how resources are acquired and allocated. 5. Collect and organize population data for the area that you have chosen. You will need a minimum of five historical data values in order to develop a trend. 6. Analyze the population data to determine what function accurately models the population data that you collected. Be sure to try at least three possible models. 7. Create a visual representation of the data that can be used to predict the population of an area. Include the function that best models the data.	March 15, 2021	April 29, 2021

8.Organize the information on powerpoint presentation and submit it on or before April 29.2021.

Attach these guidelines to your population representation.

1. Provide a brief description of the area that you chose and explain your choice. 4 pts: Description and explanation are provided. 2 pts: Explanation is omitted. 0 pt: Description and explanation are not provided.	_____ / 4
2. Population data for the chosen area is provided, including a minimum of five data values to accurately determine a trend. 8 pts: 5 or more population data are provided. 4 pts: Fewer than 5 population data are provided. 0 pt: No population data are provided.	_____ / 8
3. A description of the method that you used to determine an appropriate model for your data is provided. 6 pts: Method is provided and valid. 3 pts: Method is provided but not valid. 0 pt: Method is not provided.	_____ / 6
4. A list of the other models that you considered and a description of how each one fit the data are included. 6 pts: Method is valid and list of models is provided. 3 pts: Either method or list is not provided. 0 pt: Method and list are not provided.	_____ / 6
5. The model chosen is an accurate representation of the data and is the best choice of the models listed in Step 4. 6 pts: Model is accurate and is the best choice. 3 pts: Either model is not accurate or is not the best choice. 0 pt: Model is provided.	_____ / 6
6. A visual representation is provided that shows the population trend, the mathematical model chosen for the data, and the calculations for the population predictions in 10 years and in 20 years. 12 pts: for each component –3 pts: for each omitted component	_____ / 12
7. Provide an analysis of your model. Discuss how accurate you think the population predictions are and what you think you could do to increase the accuracy of the model. 8 pts: Analysis is provided and thorough. 4 pts: Analysis is provided but is not thorough. 0 pt: Analysis is not provided.	_____ / 8
Total Points	_____ / 50

Physics

EGG HEADS
- ♦ Your task is to create a helmet or other protective gear to protect a team of eggheads as they play the sport of free fall
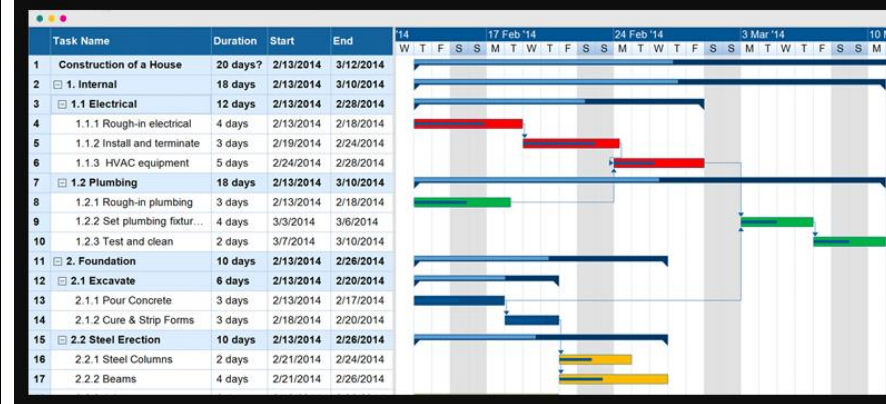
		♦ After you have achieved the goal of creating a device that protects your eggheads from a one-meter free fall, refine your design to protect your eggheads from drops of greater height. ♦ Make a PowerPoint presentation which includes testing of the protective gear you prepared and data analysis of the research you carried out. ♦ Find the detailed description of the project in MS-Teams assignment along with the rubrics		
	Biology & Chemistry	**Biomimicry in Engineering** • Explore biomimicry by using as a biological structure as a model to design and build an engineering structure. • ENGINEERING DESIGN PROCESS • Identify a Need What's the problem? • Conduct Research What have others done? What are the constraints? • Brainstorm Solutions How can you solve the problem? Brainstorm multiple ideas. • Select a Solution Which ideas best meet the need? Which ideas meet all of your constraints? Choose the best one. • Design a Solution Describe or draw a diagram of the steps you will take to solve the problem. Make a list of what you will need to implement your solution. Follow your plan. • Test and Evaluate Test it out! Analyze your results. Were they what you expected? Think about what your results say about your plan. • Redesign to Improve What changes could you make that would give you better results? Make your design even better. Test it out! • Communicate Share your results with others throughout the design process and get their feedback. Report on your final design. Complete project guide with rubrics is available on MS-Teams assignments.		
	Accounting & Economics	**Completing End of Period Activities** This project is divided into two sections. The first section is related to Accounting and the second section is related to Economics. • In the first section you will be preparing the worksheet and the income statement in a spreadsheet with the information provided.		

		You will be preparing the financial statements and recording the closing entries and finalizing the post-closing trial balance for a given business. Project details and rubrics will be attached in MS Teams		
		• The second section contains a scenario of a business and the decisions made by the businessman. You have to analyse the decisions and prepare a chart to conclude your analysis.		
	Entrepreneurship & Business Math	This project has two parts: i. **Section A** is related to *Entrepreneurship.* ii. **Section B** is related to *Business Mathematics*. The Entrepreneurship sections has the Business plan for a business that you would like to start. Your business plan must consider 1. Management Team 2. Company Description 3. Product and Service Plan 4. Vision and Mission Statement 5. Industry Analysis 6. Market Analysis A template of the business plan is shared on the teams folder. Project details and rubrics will be attached in MS Teams.		
		The Business Mathematics section of the project is related to preparing the employee earnings and the tax calculations for the employees of the business you would start. Use the spreadsheet for preparing the employee earnings and the tax calculations. Project details and the rubrics will be posted in the folder of MS Teams.		
	English	Unit 4 Performance Task: Write a research report. The writing topic and the task checklist are available on pages 182 to 185 on the Literary Companion book. The project is divided into two sections: 1st section: research report writing on word document. (An empty word document will be shared through assignments on teams) 2nd section: Presentation of the report; this can be done as a PowerPoint presentation or as a short video. Both the report writing, and the presentation must be submitted through assignments on teams.		
	Arabic	• مشروع مادة اللّغة العربية للفصل الدّراسي الثّاني		

		السنة الدّراسيّة: 2020//2021
		
		آلية تنفيذ المشروع:
		- يختار الطالب أحد المواضيع المطروحة عليه، والإنجاز يكون عن طريق البوربوينت PowerPoint أو الورد Word .
		- **الملاحظة الأولى:** إذا كان العرض عن طريق البوربوينت يجب ألاّ يتجاوز 7 شرائح، أمّا إذا كان عن طريق الورد فيجب ألاّ يتجاوز 3 صفحات.
		- **الملاحظة الثانية:** يجب أن يكون تحرير هذا المشروع معتمدًا على صياغة الطالب الشخصيّة دون سواها.
		- وعليه يرجى التكرم باختيار أحد المواضيع الآتية لتكون محور مشروعكم المقدم.
		  - مقارنة بين الأجناس الأدبية قديما وحديثا.
		  - مفهوم نظرية الحجاج وخصائص النمط الحجاجي.
		  - سيرة مختصرة لابن سينا وأبرز مؤلفاته.
		- **يسلّم المشروع عبر منصة Teams .**
		- **الدرجة المخصّصة لهذا المشروع هي 20 درجة.**
		- **آخر موعد لتسليم المشروع هو 1 مايو 2021.**		

	Islamic Studies	**أحبتي طلبة الصف الحادي عشر** سيكون المشروع الخاص بمادة التربية الإسلامية عبارة عن **شرح درس من دروس التربية الإسلامية (دين 103)** وعلى ذلك سيتم توزيع أسماء الدروس على طلبة الصف بجدول خاص سيتم تحميله في قناة التربية الإسلامية عبر Ms. Team وسيتم عرض الدروس في حصص التربية الإسلامية. **معايير احتساب درجة المشروع:** - **15 درجة** : العرض الالكتروني (تصميم الدرس ـ تضمن الدرس للأنشطة بدءًا من النشاط الاستهلالي وختامًا بالنشاط الختامي) - **5 درجات** : شرح الدرس أثناء الحصة الدراسية.	April 1, 2021	May 20, 2021
	I.C.T.	**Unit 3:** Project management **Project:** Create different project management plans and Gantt chart for charities in Kingdom of Bahrain. Students are going to create the following plans for charities in kingdom of Bahrain: - Resource plan - Financial plan - Risk plan - Acceptance plan		

		• Communication plan After that, students are going to create a Gantt chart for their project. Example: 		
	Social Studies	<div dir="rtl">**مشروع مادة المواد الاجتماعية** لفتت البلاد العربيّة الأنظار إليها منذ القدم؛ فسعت كثير من الدّول للسّيطرة عليها، ففي القرن الخامس عشر ظهر الاستعمار الأوروبّي الحديث حيث تتابعت الدّول الأوروبيّة في سعيها للسّيطرة على مناطق مختلفة من البلاد العربيّة، وهي أن تعدّدت وتنوّعت أساليبها إلاّ أنّ هدفها يبقى واحد تّمثّل في رغبتها في نهب خيرات البلاد العربيّة والاستفادة من موقعها الاستراتيجي عرّف مفهوم الاستعمار معددا أنواعه اختر أحد الدول العربية التي تم استعمارها وضح كيف تم الإستعمار و من الدولة التي استعمرتها اشرح كيف تم ذلك موضحا موقف الشعوب العربية في مواجهة هذا الاستعمار اذكر كيف نالت هذه الدول استقلالها **آلية التنفيذ** سيتم عرض المشاريع من قبل الطلبة خلال الحصة الدرسية ، POWER POINT الدرجة المحتسبة : 20</div>		