**Projects of Middle 2**

**Choose one of the following projects:**

**Note :**

**Number of words of each part of the project will be mentioned in the uploaded template on the school site.**

**First Project : Improving scientific environment and technology:**

Scientific and technological progress are the only guarantee for nations progress.

In the light of what you have studied and using available information sources, prepare a project including the following points:

1. Review how to use technology used in agriculture, including sound waves to increase production and protection of agricultural crops, and to plant seasonal crops throughout the year.
2. Plan a project that uses technology in the field of agriculture or the sound wave field and demonstrate the benefits of the project to society with the help of what you studied in the field of Mathematics to express one aspect of your research project.
3. Design a poster using geometric figures you studied, explaining the impact of technology on our lives in Arabic language and another foreign language.
4. Imagine that you are responsible for managing the resources and wealth of Arab world and write down the problems facing the Arab world with regards to their resources in various fields and the efforts of the countries in preserving them. Then suggest a solution to one of these problems depending on the use of technology.

**Second Project :The Environment:**

The environment includes many interacting elements constantly, where each phenomenon is affected by a number of factors.

In the light of what you have studied and using available information sources, prepare a project including the following points:

1. Sound waves and its positive and negative effects on the environment.
2. Some problems that Arab world face and how to overcome them using technology.
3. Using the different Geometrical shapes used in the ceramic industry and calculating the perimeter and area of each shape with suitable dimensions.
4. Write a sign board in Arabic and another foreign language including proposals to preserve the environment.
5. Use what you have studied in Mathematics to show mathematically or graphically about one aspect of your research project.
6. Write a short article explaining the information and concepts that you came up with through your research.

**Third Project : Overpopulation and food security:**

Overpopulation has some positive and negative effects. Moreover, it’s strongly related to food security.

**In the light of your studies and the available resources, create a project including the following:**

1. Clarifying the relation between overpopulation and food security in addition to mentioning some examples for securing food from the Islamic history and other examples for the effect of sound waves on the field of population.
2. Writing a guide board in Arabic and a foreign language suggesting solutions for the problem of overpopulation.
3. Using algebraic expressions to calculate the number of births, deaths, males and females.
4. Using your studies in mathematics to represent the population data and predicting the number of population in the future according to the recent percentages of increase.
5. Writing a short essay in Arabic to raise the awareness of your society about the negative impact of overpopulation. Then, translate some of the sentences to a foreign language.