

## Low Calorie Traditional Dishes

### Team Requirements:

One team consisting of four students per school may participate, from a total of 15 schools.

### Competition Information:

Students must create the original and lower-calorie version of *Kebbe bil Sayniyye* and *Aysh el Saraya*. These should be prepared at home. Along with creating these dishes, the team must prepare a visual display such as a brochure or poster to explain the modifications to the original recipe along with the new recipe's added health value.

### Materials:

Students are asked to bring their readymade foods with them on the day of the fair **Friday, April 5, 2019**, along with the brochures, posters or visual aids that were created.

### N.B.

A microwave will not be provided, so please bring your own heating equipment. Failure to follow all competition guidelines will lead to the disqualification of the entire team.

Competition Name	Participation	Location	Competition Date	Grade
Low Calorie Traditional Dishes	1 team of 4 students	TBA	Friday April 5, 2019	10 & 11

## Save the Teens Mobile Application

### Team Requirements:

One team consisting of up to two students per school may participate.

### Competition Information:

In this highly connected world, teenagers are exposed to various kinds of threats including gaming addiction, bullying, and abuse. Being teenagers, students are asked to identify one serious or widely spread threat and brainstorm ways to address it. Based on the solution they deem effective, students must design and develop a mobile application that implements this solution in an easy-to-use, interactive and dynamic way. This application may include multiple features such as internet connection, browsing, data saving and retrieval, video playing, messaging, searching, login, user profile updates, and more. The application should be robust and should not crash. The use of Application Programming Interfaces (API's) and libraries is allowed, but the features of the application must be developed from scratch through the use of a programming language (not merely graphical interface).

Teams will be given 10 minutes on the day of the fair to present the features on their smartphones/projectors and answer the jury's questions. Technical questions related to coding might be asked during or after the presentation, so the source code on their laptops must be available. Students will be asked to display their work in person on the day of the fair **Friday, April 5, 2019**.

### Materials:

Students are asked to have the entire configuration/tools/cables needed for their projects ready on their smart phones and prepared to be connected to the projector.

#### Evaluation Criteria:

- X - User Interface design and ease of usage
- X - Interaction with users
- ✓ - Provided features
- ✓ - Idea innovation
- X - Code complexity and programming language
- X - Underlying technology used
- X - Efficiency and performance

#### N.B.

Failure to follow all competition guidelines, including exceeding the 10-minute time frame, will lead to the disqualification of the entire team.

Competition Name	Participation	Location	Competition Date	Grade
Save the Teens	1 team of up to 2 students	TBA	Friday April 5, 2019	10 & 11

### Mathematics Competition

#### Team Requirements:

One team consisting of three 11<sup>th</sup> grade students per school may participate.

#### Competition Information:

The contest will be a list of several questions (in English) which will be provided to each team. Teams will be tested separately using the white board. Grades will be attributed to them according to their performance. Within the teams, student members will be ranked. The competition will take place on the day of the fair **Friday, April 5, 2019**.

#### Additional Round (only for the top three schools):

The top three schools will compete in an additional more challenging round.

#### Topics:

Students should prepare by studying the Mathematics program of the Lebanese Government for the 1<sup>st</sup> and 2<sup>nd</sup> secondary classes. The main themes are: limits, derivatives and their applications.

#### Materials:

Students are asked to bring their own scientific calculators (programmable calculators are not allowed).

#### N.B.

Teachers are prohibited from entering the room while students partake in the competition, and students are prohibited from using their cellular phones in any manner. Any violations will lead to the disqualification of the entire team.