



CIRCULAR UPPER ELEM No. 10 /AY17-18

December 5, 2017

Dear Parents,

The Upper Elementary Math and Science Fairs at Sagesse High School will be held in January 2018. The Science Fair will be held on Wednesday January 24, 2018 for grades 4 and 5 students and on Thursday January 25, 2018 for grade 6 students. The Math Fair will be held on Friday January 26, 2018 for Grades 4 ,5 and 6 students. The fairs will be held during school hours.

All students are required to participate either in the Math Fair or in the Science Fair. The deadline to submit either the Math or the Science projects is Tuesday January 23, 2018 or on the day of the fair.

Students can work in pairs or groups (maximum of four students/group). Students' projects can be based on research, investigation, models or demonstration.

Math and Science HoDs will be available on **Monday December 11, 2017** from 12:15 p.m. to 1:00 p.m.in the reception/common room to answer all your questions and queries.

Please see attachment.

Thank You

Juhaina Abu Khalil
Head of Upper Elementary Division

CRITERIA FOR MATH AND SCIENCE PROJECTS

General criteria

1. The project is relevant to the grade level and fits one of the categories below.
2. The project is a creative idea, original and innovative.
3. The group shows knowledge of the topic chosen
4. The display is neat and clear.
5. The group is able to briefly explain the project.
6. The project reflects the student's own work.

MATHEMATICS PROJECT CATEGORIES

A. Real World Problem Investigation

A design or report on an extended investigation of a problem situation in a genuine real world setting.

- Making a conjecture and collecting data to prove it.
- Statistical analysis

B. Abstract Problem Investigation

An open-ended, non-routine, abstract mathematical problem that can be solved in more than one way or has multiple solutions, and designing at least one way to solve it.

- Pattern explorations
- Problems with multiple solutions

C. Real World Model or Demonstration

A model or demonstration that illustrates the meaning of the concept or process chosen and how it works in the real world. The model should include an explanation of an specific mathematical concept or process in a new way.

SCIENCE PROJECT CATEGORIES

A. Models and Demonstrations

Projects in this category focus to explain a specific scientific concept or principle in a new way. In addition to the presentation of the model or demonstration, projects should include a written rationale for why the particular model or demonstration is effective in explaining the chosen concept or principle.

Specific judging Criteria for This Category:

1. Creativity of the model or demonstration: is this a truly innovative way of explaining the chosen topic? Projects that repeat commonly known models and demonstrations will not be evaluated well with respect to this criterion.
2. The effectiveness of the model or demonstration for explaining the concept or principle.

B. Research

Projects in this category should provide answers to novel questions raised by the student. Research projects can use either experimental or non-experimental designs. Projects must include a clear statement of the question asked, the method used to address the question (including rationale for why this method is appropriate), presentation and analysis of results and the conclusion drawn.

Specific judging Criteria for This Category:

1. Methodology

- a. Appropriate formulation of research question: Is the research question formulated precisely enough to be addressed? Is it a question that can be realistically addressed by the student given the resources and time available?
- b. The methods of data collection are appropriate for the question asked.
- c. Results are appropriately analyzed and presented in a way that helps address the question.
- d. Conclusions are consistent with the results obtained.

2. Creativity:

Intriguing questions that are rarely thought of would be evaluated highly