

Sego Lily Elementary Four Star STEM Fair

November 2016

Dear Parents and Students,

The Sego Lily STEM (Science, Technology, Engineering, Mathematics) Fair will be on Thursday, Jan. 26, and Friday, Jan. 27, 2017. The purpose of this activity is for students to have an opportunity to use a variety of skills in an investigation and show findings in a quality presentation, which is part of the 6th Grade Science Curriculum.

All sixth grade students are required to prepare a project. Other students are encouraged to participate as a Principal's Challenge. It is best if students work alone and not with another student, however that decision will be decided by your teacher. There are three different types of projects that a student can enter in the fair. An Engineering project is a project which a student designs, works on a prototype, then improves the design. A Computer project involves programming. A Science experiment would be a science investigation that asks a question which can be answered with a controlled experiment. Projects (like a report) that only demonstrate a scientific principle are discouraged. Each of these projects has a guideline packet available on our school website.

Fifth and Sixth Grade students are eligible to enter the District STEM Fair. Projects can be chosen from the following categories: (1) Earth Science, (2) Engineering and Computer Science, (3) Life Science, (4) Physical Science-Chemistry, (5) Physical Science-Physics, and (6) Product Testing & Consumer Science.

It is possible for every student to have a four star project. Stars will be awarded for the following requirements: (1) An organized project board and table display. (2) Evidence of a scientific investigation using a controlled experiment, or following the engineering or computer guidelines. (3) Science Journal (**more than 4 entries**). (4) Data Table and Graph. A special award - **The Einstein Award** - will be awarded for those projects that have four stars and show outstanding scientific thinking or creativity. (Please see rubric for more details.) Those who are applying for the Principal's Award must fulfill all requirements for the Einstein Award.

Students who are entering the STEM fair must turn in an entry form to their teacher by Friday, Dec. 9th, so that their project can be approved by their teacher and to have a place reserved in the fair. A display board may be purchased for \$4.00, header for \$2.00 (see order form in packet). The display board must also be ordered by Fri, Dec. 9. All students will fill out the Alpine District STEM Form and the CUSF STEM Fair Application, but there is **not** a \$10 fee.

The STEM Fair instruction packets are available online this year. Please check the school website for specific information as to what parents can help with and what should be student work (segolily.alpineschools.org). There are also PowerPoints with information to answer your questions. Thank you for your support. Please contact your teacher if you have further questions.

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