



# JW YORK presents an Engineering Fair

## February 24, 2017

Students and Parents of Future Engineers:

We are looking for future engineers! **Students of all grades can participate in the Engineering Fair for the 2016-2017 school year.** All who participate and turn in the written portion and the prototype will attend a pizza party upon completion. In order for students to be eligible they need to complete one of the four tasks listed on the back of the sheet. Once you've chosen the area you will focus on please return the intent form to Ms. O by Jan. 13th.

Engineers who are entering York's Engineering Fair, need to have their assignments completed by Feb. 24<sup>th</sup>, 2017.

The Engineering Fair judging will be on Friday, February 24<sup>th</sup>, 2017 in the gym or media center.

Your projects should be brought to school between 8:00 am and 9:15 am. Remember **YOUR NAME SHOULD NOT BE VISIBLE ON THE FRONT OF THE DISPLAY OR ON THE FRONT OF YOUR JOURNAL.** Instead, place your name on the back of your project and journal.

Please return the bottom portion of this slip **if you are going to participate in the Engineering Fair.** All participants will be invited to a celebration once the fair is completed.

Sincerely,

Ms. Osterhoff

Student Name: \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone Number: (     ) \_\_\_\_\_ - \_\_\_\_\_

Engineering Focus: \_\_\_\_\_

Homeroom Teacher: \_\_\_\_\_ Grade: \_\_\_\_\_

**Students will have 4 Engineering Topics to pick from: (Please know you will be judged on the category you selected.)**

**\*\*All students will be expected to create an excel sheet of their budget.**

**\*\*They will also need a google doc/word doc describing how they went through the engineering design process and the improvements they made.**

**TOPICS TO SELECT FROM FOR THE ENGINEERING PROJECT:**

### **New Super Kids Day Activity**

Activity will need to be waterproof, be able to withstand weather (wind, etc.) and kid approved.

Rules must be clear and concise.

All materials should be able to fit in a box smaller than 2 ft by 2 ft by 2ft.

All costs for parts must stay under \$20.

### **Trebuchet or Catapult**

Must be able to withstand 20 lbs.

Must be able to launch items provided by the student.

Students will be judged by ability to assemble the machine and its launch in distance.

All costs associated must be \$20 and under.

### **NEW TOY**

Student will create a new toy for kids.

Directions for the toy or purpose must be included.

Toy must be durable.

All costs associated must be \$20 and under.

### **Music Maker**

Student must create a **new** musical instrument.

**Student must be able to play a verse of a song on it.**

Instrument must work.

All costs associated must be \$20 and under.

**\*Medals and awards will be given to top student in each category. There will be 3 overall winners as well.**