



## Meadow Park Middle

### **2009-2010**

#### **Going Solar: Spring to the Finish: \$1,000**

##### ***Funding Provided through the Building STEAM 4 All Program***

Students will have the opportunity to design, build and test a solar car in a competition that integrates the new science standards of engineering, math and alternative energy. Seventh graders, working in teams, will use the engineering design process to create and test a solar car. They will learn to work cooperatively to problem solve and evaluate the constraints and tradeoffs of their design decisions. Students will learn and apply science concepts including: forces and motion, friction, gear ratios, aerodynamic features, efficient axles and chassis.

#### **Engineering Alternative Energy Solutions: \$1,000**

##### ***Funding Provided through the Building STEAM 4 All Program***

During this engineering project, students will be exposed to and fostered in engineering principles by producing solar, wind, hydrogen or water energy production devices of their choosing. Given basic components, they will design and build a working turbine or car. Students will determine the amount of energy produced from their device and determine how many of their devices would be needed to replace its fossil fuel counterpart.

#### **BEF After-the-Bell Student Success Award: \$13,905**

Funding will be used to support an after school Homework Club, Math Help Club, and enrichment clubs and activities. Because of the established after-school program Tualatin Hills Parks and Recreation Department is able to offer additional opportunities for students after school such as Debate, Track and Field, Tennis, Volleyball, Hip Hop Dance, Lego Robotics and Basketball.

### **2008-2009**

#### **Heroes Around Us: \$850**

Intermediate English Language Learners will participate in the Heroes Around Us Project. Three different types of heroes from the community will be invited to speak to the students about their life experiences and their work. Students will choose a hero about whom they will write a biography.



### **Advanced Video Production: \$800**

#### ***Funding provided through the Dave Gettling Technology Fund***

This project will allow students to use cutting edge video production software at the middle school level. Students will be able to take their art to the next level as they incorporate animations, the use of green/blue screen for special effects and other features available on Final Cut Express.

### **Catching the Power of Wind: \$1,000**

#### ***Funding provided through the Dave Gettling Technology Fund***

This project seeks to bring the important issue of renewable energy sources to life for students by providing them with an opportunity to explore how wind energy can be harnessed using a windmill. Students will work in groups to design, build and test a model windmill.

### **BEF After-the-Bell Student Success Award: \$6,500**

Funding will be used to support an after school Homework Club, Math Help Club, and enrichment clubs and activities. Because of the established after-school program Tualatin Hills Parks and Recreation Department is able to offer additional opportunities for students after school such as Debate, Track and Field, Tennis, Volleyball, Hip Hop Dance, Lego Robotics and Basketball.

### **2007-2008**

#### **Wash Your Hands Please: \$1,000**

Students will learn about the growth and reproduction of microbes through research and experimentation. Seventh graders will investigate the effects of various anti-microbial solutions upon the growth of bacteria. In addition students will experience a model of how bacteria can spread from person to person, using Glogerm powder. Students will apply the data collected to discuss the implications of the lack and accessibility of clean water in disease transmission in many regions of the world.

#### **Pop Art Printmaking**

This eighth grade printmaking project will focus on the Pop Art movement. Students will look at the work of Pop Artists with an emphasis on Andy Warhol. Students will turn a drawing into an etched plate made in the reverse that will be used in the printing press to create a print.

#### **BEF After-the-Bell Student Success Award: \$7,500**

Funding used to support an after-school Homework Club and Math Help Club. In addition enrichment opportunities and activities such as Acting Club, Math Counts, Science Bowl, Soccer, Ultimate Frisbee, Art Club, Anime Club, Jazz Band, Math, Engineering and Science, were offered to students.