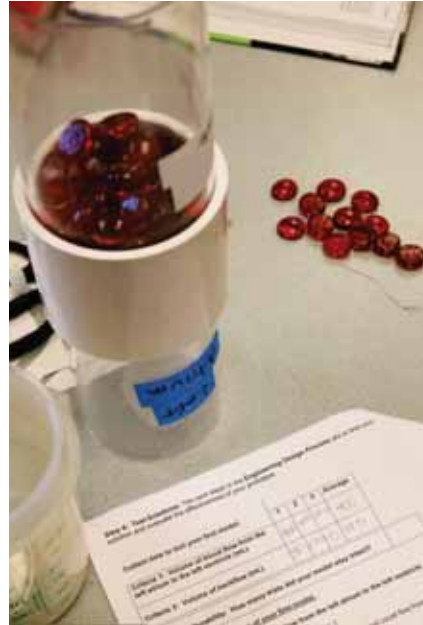


# SAVING A HEART, ONE VALVE AT A TIME

May 18, 2016



Seventh grade student, Alex Monson, tests the heart valve she and her partner, Luis Chavez, designed to see how well marbles (blood) flow through.



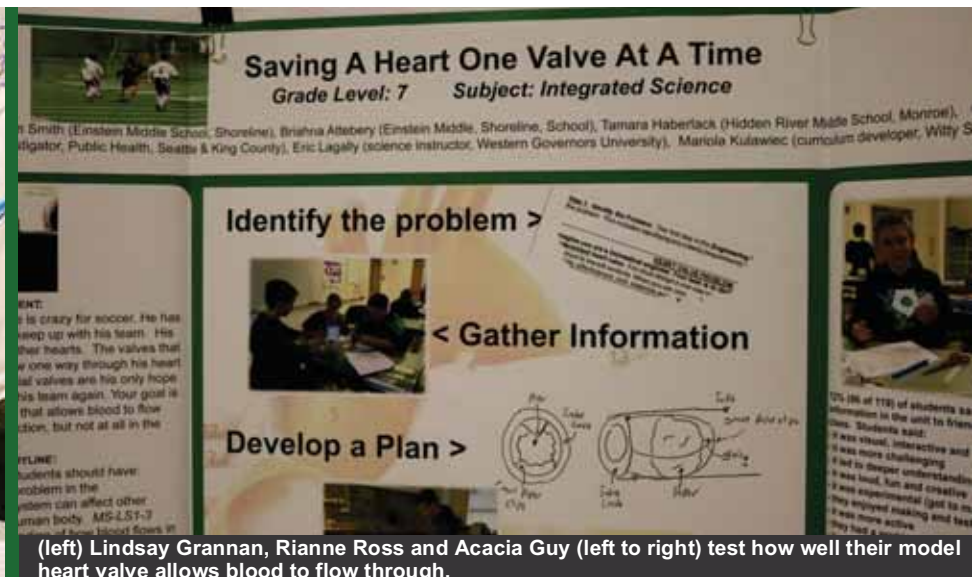
Students recorded test data in order to evaluate and redesign their artificial heart valve models.



Hope Young, Eric Anthony, and Jade Stensland (left to right) pour marbles (blood) into the heart valve model they designed in science class.

## HRMS Students Design and Test Heart Valves

Mrs. Haberlach's 7th graders at Hidden River Middle School have been working on testing model heart valves they designed and constructed in science class. The goal was to design an artificial valve that would allow blood to flow easily in one direction, but not at all in the reverse direction. Mrs. Haberlach played a critical role in the development of this unit in partnership with the Washington Alliance for Better Schools.

**Saving A Heart One Valve At A Time**  
Grade Level: 7 Subject: Integrated Science

Identify the problem >

< Gather Information

Develop a Plan >

100% (16 of 16) of students in the unit in their class. Students said: "It was fun, interactive and it led to deeper understanding. It was hard, fun and creative. It was experimental (and to us it was more active. They had a purpose."

(left) Lindsayy Grannan, Rianne Ross and Acacia Guy (left to right) test how well their model heart valve allows blood to flow through.