

Live and learn

Halloween at the Orange Branch

Celebrate Halloween with games and crafts during library hours on Saturday at the Orange Branch of the Cuyahoga County Public Library, 31975 Chagrin Blvd., Pepper Pike.

For more information call 216-831-4282.

Science competition semifinalist

Hathaway Brown senior **Olivia Asmar** of Chagrin Falls has been named one of three semifinalists from Northeast Ohio in the



Asmar

Siemens Competition in Math, Science and Technology for their multiyear research projects through the Science Research and Engineering Program.

The Siemens competition is the nation's premier competition in math, science and technology.

Olivia worked with classmate **Halle Leneghan** at NASA Glenn Research Center for four years on "The Effect of 1.5 Years of Space Exposure on the Optical Properties of Spacecraft Polymers." The analyses conducted by Olivia and Halle are for use by NASA and private companies such as Space X as they design long-duration spacecraft.