

Science Team
Project 1



**Outstanding
Award**
SEFMD 2009-10

Title: Catalytic Converters

Developed by/Contact info: Terrance Collier (ecnarret@gmail.com)
Alex Shropshire (Stone_heliotrope@hotmail.com)

Location/School: Renaissance High School

Grade Level: 11th & 12th Grades

Design Team Membership: Science Design Team

IT/STEM Tools Used: STELLA

Project Overview: The purpose of this project was to find a more efficient method to design a catalytic converter using the FORD prototype as a model. Research was conducted on the honeycomb style currently in use. New designs were created using the STELLA modeling program to determine a more efficient method than the honeycomb style. The results were graphed and compared. The impact of the findings could greatly reduce the amount of toxic compounds and exhaust fumes, which would help to offset global warming.