



## Colorado Science and Engineering Fair

## 2025 Individual Project Abstract Form

**Please print 2 copies of the completed form. Sign both copies, keep 1 for your notebook and submit 1 copy to your Regional Fair Director with your other paperwork.**

Title of Project: How dose viscosity of different liquids affect the speed of a moving object?

Finalist's Name: Emily Abdulsalam

School and City: Crescent View Academy

Sponsor's Name: mohammed abdulsalam

Category: Physics & Astronomy

Division: Junior (grades 6 - 8)

Abstract (250 words or less):

This experiment was done to find out how the viscosity of different liquids affects how quickly marbles can go through them. So we tested six liquids which were: rubbing alcohol, water, vegetable oil, milk, dish soap, and corn syrup. We used the graduated cylinder and dropped the marbles into the liquid while timing it to see how long the marble would fall to a certain distance. Our results show that a liquid that has a high viscosity like the corn syrup, made the marble go down really slow compared to the liquids with the low viscosity like the water. This experiment helps us understand how viscosity works and why it is important in areas such as food science, medicine, and environmental science. The results show that the thicker liquids resist motion more than the thinner ones, which supports the hypothesis. Future studies can look into the temperature's effect on the viscosity of different liquids or even use different objects that could affect the falling time.

*I hereby certify that the above statements are correct and the information provided in the Abstract is the result of one year's research. I also attest that the above properly reflects my own work.*

Finalist's Signature:

Date:

In addition, all students must complete the ISEF Student Checklist (1A), Research Plan, Approval Form (1B), and Checklist for Adult Sponsor (1), and any other ISEF forms required for this type of project. See the International Rules and Guidelines for form requirements. Return COPIES of all of these forms to your Regional Fair Director with you Finalist Verification/Permission Form. **A signed copy of this form must be included in your notebook.**