



## Colorado Science and Engineering Fair

## 2024 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: Inheriting Blood Types

Finalist's Name: Jade Howell

School and City: Ignacio Middle School, Ignacio

Sponsor's Name: Mrs. Redman

Category: Biomedical Sciences (BMED)

Division: Junior (6th - 8th grades)

Abstract (250 words or less):

Abstract

To the majority of the world, blood types are a mystery, so how are blood types inherited, and can a child's blood type be predicted? A blood test of family members (independent variables) showed what possible percentage their children would be (dependent variables). I hypothesized that if blood types are inherited, then I predict children inherit their blood type from both parents because children are a mix of their mother's and father's genes. To predict a future child's blood type, you would need both alleles from each parent. That would give you all the possibilities of future children's blood types. The data from the experiment supported my hypothesis because it shows that children take an allele from each parent, which are a combination of genes that make up the blood type. The results show that children are a mix of their mother's and father's blood types. However, your blood type doesn't always result in the same as one or both parents.

*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.