



California Science Center
CALIFORNIA STATE SCIENCE FAIR
2001 PROJECT SUMMARY

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| Your Name (List all student names if multiple authors.) Steven B Zabielskis | Science Fair Use Only S0922 |
| Project Title (Limit: 120 characters. Those beyond 120 will be ignored. See pg. 9) Which Material is the Most Effective Thermal Insulator? | Division <u>S</u> Junior (6-8) <u>S</u> Senior (9-12) |
| Preferred Category (See page 5 for descriptions.) 9 - Fluid Mechanics/ Aerodynamics/ Thermophysics | |
| Abstract (Include Objective, Methods, Results, Conclusion. See samples on page 14.) Use no attachments. Only text inside these boxes will be used for category assignment or given to your judges. | |
| <p>My project was designed to see which material, foam insulator, aluminum foil, cotton cloth, or rubber tube is the most effective thermal insulator. I wrapped each material around the same container, put in 100 degree celsius water, and measured the temperature of the water every 2 minutes for 24 minutes. I repeated this with 1, 2, and 3 layers for each material. I found that the foam was the most effective material because it had the highest temperature water at the end, and lost the lowest percentage of heat compared to previous readings.</p> | |
| Summary Statement (In one sentence, state what your project is about.) My project is about thermal insulation materials. | |
| Help Received in Doing Project (e.g. Mother helped type report; Neighbor helped wire board; Used lab equipment at university X under the supervision of Dr. Y; Participant in NSF Young Scholars Program) See Display Regulation #8 on page 4. My dad helped set up the experiment. | |