

SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)  
Ignition - Primary Space Education (1)

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THE BENEFITS OF PREPARED KITS FOR EDUCATION

**Abstract**

The authors will discuss the benefits of a Tethered Balloon Kit for Education and Outreach in rural locations. This project will introduce early education students to the concepts of buoyancy and gravity while also tying into social sciences. The tethered balloon will demonstrate the concept of buoyancy and lifting forces. The student developed egg payloads provide a beginning hands-on experience for mechanical engineering and material sciences as the student builds a suitable protective system for the egg. The force of gravity is seen when the egg payloads are released from varying heights that can be programmed to correspond to historically significant landmarks to allow a sense of scale to the students.