

GUIDING QUESTIONS

This section includes some guiding questions about SuitSat 2. A good source of information on SuitSat 2 is www.suitsat.org. Questions that can be introduced include: How will SuitSat 2 be launched? What forces will be acting upon SuitSat 2 as she tumbles in orbit around Earth? How will SuitSat 2 communicate with people on Earth? What will be used to power SuitSat 2's on-board technology? What will SuitSat 2's ultimate fate be?

Following you will find an experiment/research approach to exploring the concepts of motion, momentum, friction, Newton's Laws, and gravity. This information is key to understanding the forces that SuitSat 2 will encounter during her journey.

- **What is motion? Students will describe and measure motion.**
- **What is momentum and friction? Students will measure momentum and do a building project utilizing their knowledge of momentum and friction.**
- **What is a force? Students will observe and explore the basics of Newton's Laws of motion.**
- **What are your ideas about gravity? Students will explore their notions of gravity. They will then compare their ideas to the ideas of Aristotle, Galileo, and Newton.**
- **How can we capture the Sun's energy? Through experimentation students will learn how to capture the energy from the sun and put it to practical use.**
- **What is SuitSat 2? How can we communicate with a free falling tumbling satellite? Students will be introduced to Amateur Radio communication.**