



OPAS Initiative  
Motivate Workgroup  
March 1, 2007

## The Phase Model

The Motivate Workgroup Goal: Increase students' interest and knowledge of engineering and applied science opportunities for the purpose of pursuing technology-oriented careers.

The Motivate Workgroup Strategy: Increase the engineering and applied science content of STEM education programs.

### The Phase Model: A Conceptual Framework

This may be useful as a tool for thinking about complete coverage of motivation, use of resources, and planning.

- **Awareness:** Student is aware of various STEM careers and opportunities.
- **Encounter:** Student encounters STEM first hand – attends an ORTOP competition, hears a STEM speaker, visits a STEM museum.
- **Engagement:** Student experiences a STEM task first hand, over time – on a robotics team, a Saturday Academy class, an intense summer camp.
- **Commitment:** Student pursues a STEM academic/ career path with enough conviction to overcome early course failures, bad experiences, confusions, and other non-optimal circumstances.

***OPAS Initiative 2007: Motivate Workgroup Kick-off – March 1, 2007***

*Increase the engineering and applied science content of STEM education programs to increase students' interest and knowledge of engineering and applied science opportunities for the purpose of pursuing technology-oriented careers.*