

# MIT MATHLETS

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HOME ABOUT APPLETS COURSES ACTIVITIES FORUM

WELCOME!



Welcome to the MIT Interactive Mathematics Site!

Here you will find a suite of dynamic Java applets for use in learning about differential equations and other mathematical subjects, along with examples of how to use them in homework, group work, or lecture demonstration, and some of the underlying theory.  
We welcome your contributions, through the forum.



**RECENT POSTS:**

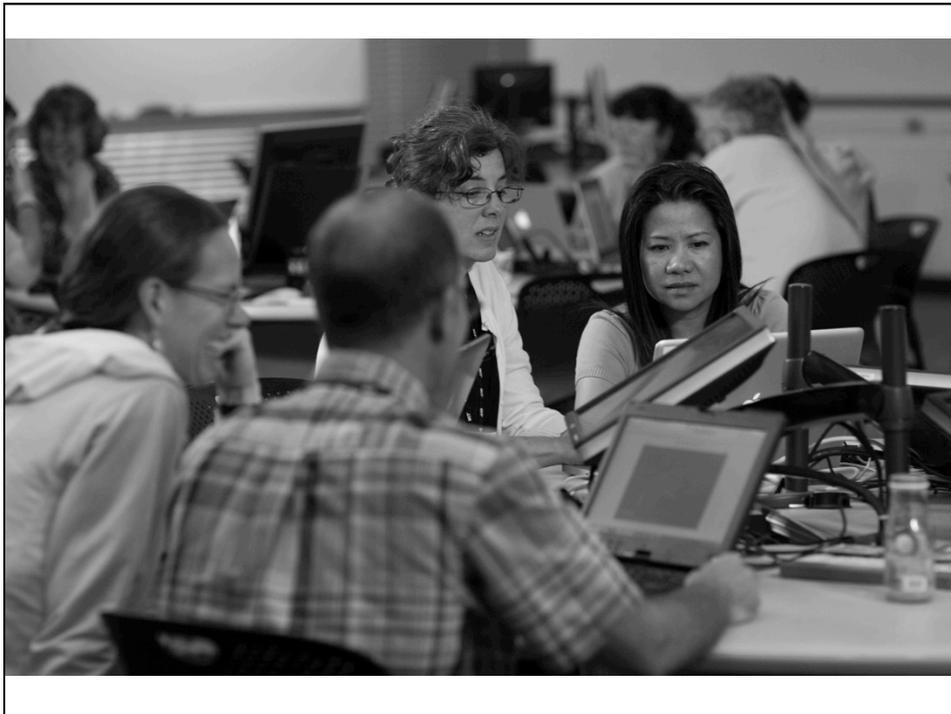
- > New Videos Added
- > New calculus Mathlets!
- > Taylor Polynomials in Aerospace Engineering
- > Stability in Aero-Astro
- > TEAL Meets the Mathlets

**RECENT COMMENTS:**

- > Dan on TEAL Meets the Mathlets
- > Bill on Stability in Aero-Astro

## Module 2: Mathlets in Group Work

Haynes Miller, Professor of Mathematics, MIT



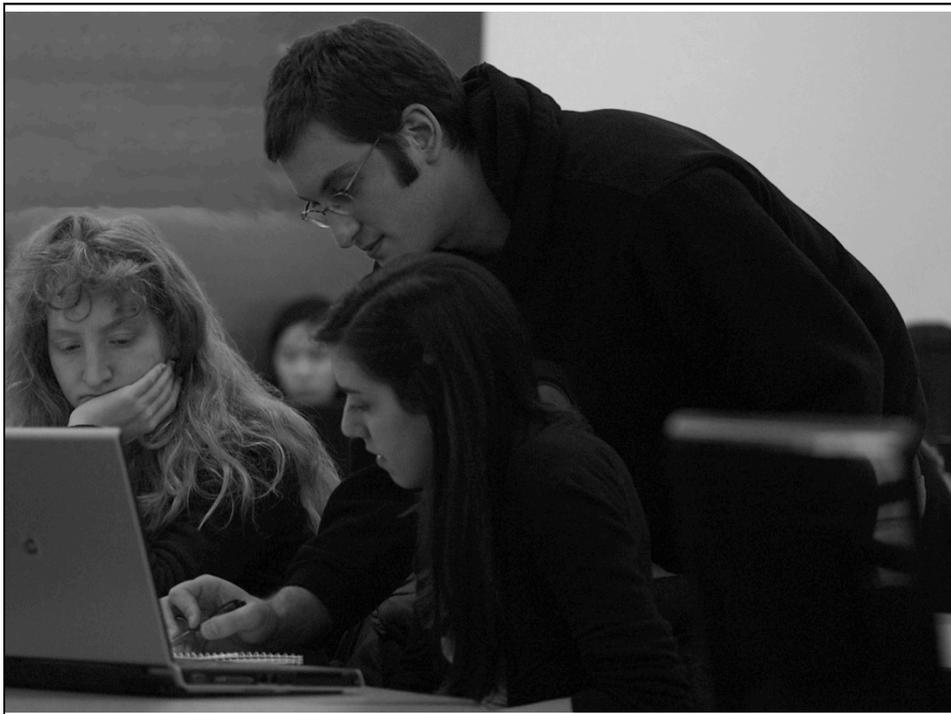
## Module Objectives:

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- work during lecture
- Encourage the use of Mathlets to elicit mathematical reasoning by students

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## Virtues of Mathlets

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5. Most students prefer algorithm and pattern matching to mathematical thought.

The graphical representation of mathematical contexts using Mathlets makes it possible to lead students to make truly mathematical arguments.

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## Virtues of Mathlets

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6. Group work can be difficult to organize in a mathematics class because there is no physical object which all participants share and work with together.

The Mathlet provides a center of attention with which groups of students can work.

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## Virtues of Mathlets

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7. Mathlets support a version of "inquiry based learning," inviting students to experiment and then explain their observations.