

# Technology Integration in Task-Based Learning

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## The Technology

Technology can act as a platform for student communication and interaction with the content, one another, and the instructor. We are preparing students to live and solve problems in a world driven by technology and limitless accessibility to information. With technology in classrooms, how are we preparing students to progress in their ability to use mathematical principles and practices in a “real-world” context?

### Student-to-device ratio:

We have one class set of 32 iPads for 300 students used on a rotating schedule to have a 1-to-1 ratio when iPads are in use.

### Guidelines for student use:

- Respect the Technology- Students share the iPad, it is not yours.
- Carry the iPad with two hands.
- Do not touch anyone else’s iPad
- “Settings” are off limits; do not change backgrounds.
- Return the iPad in better condition than when you received it.
- Stay on the Apps we are using
- Delete photos and documents you are not using
- Irresponsible use will result in

*The most effective use of tablets in the classroom is NOT the quality of the Apps you have. Using apps as practice to reinforce learning is a great tool, but it is not a substitute for a great lesson.*

## iPad Apps that support student learning in Common Core:

### General:

Middle School Math  
Braining Camp- Various Apps

### Ratios, Rates, and Proportional

#### Relationships:

Math Snacks

### The Number System:

Factor Samauri\*\*  
Pearl Diver  
Fractions- Tap to Learn  
Coop Fractions

### Expressions and Equations:

AlgeBingo  
Algebra Combat

### Geometry:

Geometry Combat  
MathApp-Geometry

## The Tasks

Rich tasks require students to *apply* their math skills and reasoning in problem solving.

“Rich tasks open up mathematics. They transform the subject from a collection of memorised procedures and facts into a living, connected whole. Rich tasks allow the learner to 'get inside' the mathematics. The resulting learning process is far more interesting, engaging and powerful; it is also far more likely to lead to a lasting assimilation of the material for use in both further mathematical study and the wider context of applications.”- nRich maths

### **Resources for Rich Tasks:**

Insidemathematics.com

Dan Meyer

MARS tasks

Engage New York

eNrich

illustrative math

LiveBinder

### **Which Juice is Fruitier?**



### **Task Hints:**

Hint 1:



Hint 2:



Hint 3:



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