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# Game Time: Choosing Apps and Games that Align to the Common Core

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# Game Time: Choosing Apps and Games that Align to the Common Core

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mathematics, education, educational apps, iPad apps, Common Core

**Disciplines**

Science and Mathematics Education

**Comments**

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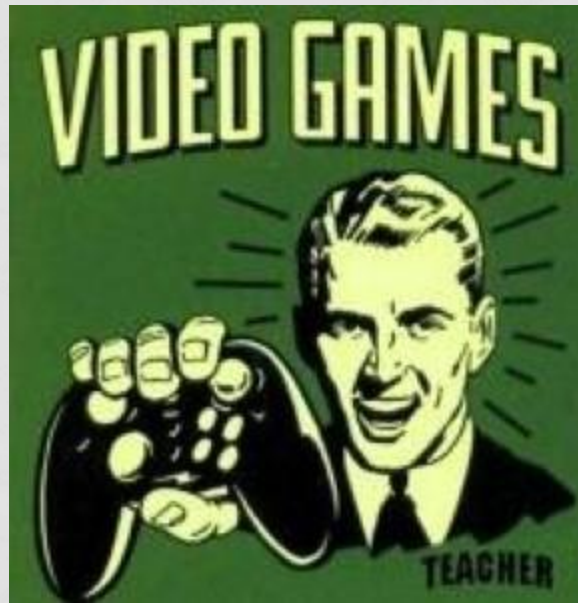
# GAME TIME

VALORIE AND RYAN ZONNEFELD  
DORDT COLLEGE

Credit to Maria Andersen for many concepts

# WHO'S PLAYING GAMES?

- 91% of 2-17 year olds play online games according to [cnet](#)



# WHO'S PLAYING GAMES?



# LAME GAMES (MARIA ANDERSON)

- It's just homework, with pretty graphics
- There is no strategy involved. Playing faster, slower, or making different decisions have no effect on the overall outcome or scoring.
- The game play stops when it's time to do math
- The game can be won by trial and error, with no mathematical abilities.
- The "game" is a fixed puzzle, not a game.
- There is no "check" in the game for correct math (or there is no "check" for all players, only the winners).
- In multiplayer games, only the current player is involved, everyone else is an observer.
- It has bad design.

# EXAMPLES OF A BAD MATH GAME

- Balance between boredom and frustration
- Example 1 – [Absolutely](#)
- Example 2 – [Area & Perimeter](#)
- Example 3 – [Math Baseball](#)

# GOOD GAME

- Teaches **how** to play with an easy concept
- Continually progresses / gets harder gradually
- Leveled
- Engaging
- Time to play – feel free to explore while we talk



# NUMBER SENSE (COUNTING & CARDINALITY, NUMBER SYSTEM)

- Wings – iPad app
- [Ice ice maybe](#)
- [Flower power](#)
- [Factor-Tris](#)

# FRACTIONS

- Motion math – iPad app
- Equivalent Fractions – iPad app from NCTM

# GEOMETRY

- Penominos – iPad app
- Zentominos – iPad app
- Tangram – iPad app
- Grid Drawing – iPad app

# OPERATIONS & ALGEBRAIC THINKING

- Dragonbox – iPad app
- [Algebra meltdown](#)
- Algeburst – iPad app
- [Line gem](#)
- Algeboats – iPad app

# TOOLS ADDRESSING STANDARDS FOR MATHEMATICAL PRACTICE

- My Script Calculator – iPad app
- Flow – iPad app
- Kenken – iPad app
- Math Quiz Up – iPad app
- Bedtime Math – iPad app

# HOW TO USE



# HOW TO USE

- 1 to 1 environment
- Have available during free time
- Put on website
- Assign homework and ask students to send a screen shot after 15 minutes or once they reach a certain level or score
- Difference b/t iPads and computers

# WHAT ARE YOUR FAVORITES?

- Apps
- Websites
- Other



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