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

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GAME TIME

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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
- Zentomininos – 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

• 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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