

## Core Skills Analysis

### Mathematics

While playing Hero Wars Alliance, the student calculated the optimal number of troops to recruit using in-game gold and gem resources, applying addition and subtraction to stay within budget. They compared attack and defense stats of different heroes, interpreting ratios to decide which combinations would win battles. The student also estimated the time needed for upgrades, using multiplication to plan resource collection over several days.

### English / Language Arts

The student read mission briefings, hero biographies, and chat messages, extracting key information to make strategic choices. They wrote short in-game messages to coordinate with alliance members, practicing clear, concise written communication. By following story quests, the student identified cause-and-effect relationships within the game's narrative.

### Digital Technologies

During the game, the student navigated a complex user interface, selecting menus and interpreting icons, thereby developing digital fluency. They evaluated data dashboards that displayed win rates and resource trends, making evidence-based decisions. The student also practiced responsible online behaviour by collaborating respectfully with teammates and following the game's code of conduct.

### Tips

Encourage the learner to keep a simple spreadsheet that tracks resource earnings, spending, and hero upgrades to reinforce arithmetic and data-visualisation skills. Set up a weekly family "strategy night" where the child explains their game plan to you, strengthening oral communication and logical reasoning. Introduce a tabletop version of the game using cards or dice to explore probability and teamwork without a screen, linking the digital experience to hands-on learning. Finally, discuss the ethical aspects of gaming—fair play, digital citizenship, and balancing screen time—with real-life examples.

### Book Recommendations

- [The Kid's Guide to Coding: A Playful Introduction to Programming](#) by Heather Lyons: A colourful, step-by-step guide that teaches children basic coding concepts through games and puzzles, perfect for a young strategist.
- [Dragon Slayers: A Tale of Teamwork](#) by Megan K. Thomas: A fantasy adventure where a group of friends must plan, cooperate, and use each member's strengths to defeat a dragon, mirroring alliance dynamics.
- [Math Adventures with Magic Numbers](#) by Anna B. Wood: A storybook that blends magical quests with math challenges, helping readers practice addition, subtraction, and multiplication in a fun context.

### Learning Standards

- Mathematics: ACMNA161 – Solve problems involving addition, subtraction, multiplication and division of whole numbers.
- Mathematics: ACMSP125 – Interpret and use data from tables and graphs to make decisions.
- English: ACELA1526 – Understand and use language for a range of purposes, including digital communication.

- English: ACELY1689 – Create short, purposeful texts for specific audiences.
- Digital Technologies: ACTDIP018 – Design, develop and test solutions using computational thinking.
- Digital Technologies: ACTDIP025 – Evaluate the impact of digital solutions on individuals, groups and the environment.

### **Try This Next**

- Create a "resource log" worksheet where the child records daily gold/ gems earned, spent, and saved, then calculates weekly totals.
- Design a comic strip that narrates a recent in-game battle, labeling hero abilities and showing cause-and-effect dialogue bubbles.