**Attack on Blob: Divide and Conquer**

Developed By:

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1.0.0

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# Game Overview

### Target Learning Objective (LO)

* [5.NBT.B.6: Divide Whole Numbers with 4 Digit Dividends and 2 Digit Divisors](https://drive.google.com/file/d/1xpJdZCLiwQyad0TlFfQQ8N3fJn_qnZkj/view)

### Demographics - Target Audience

* Ages 8-11 (Grade School)

### Genre / Theme / Setting

### Core Gameplay Summary

* Summarize with bullet points the gameplay, flow, and goals for the game
* Indicate the gameplay mechanic
* Please also summarize how the **learning ties into the gameplay itself**

### Look and Feel

* What is the basic look and feel of the game?
* What is the visual style?
* Just a text summary here is fine, there is a section to expand on art style where you can include mockups.

### Target Platform(s)

* WebGL with iPad support – Since the game is completely mouse driven, there should be no issue with playing the game in any platform that supports mouse or touch input.

# Game Flow

## Part 1 - [Name of this Portion of the Game]

### L.O. Concept(s) Covered

* List the concept(s) covered during this part of the game.

### Summary

Questions to consider:

* Indicate the gameplay goals. This is supposed to be fun, after all!
* What is the flow of the gameplay?
* What is the flow of the academic content?
* How will students/players be held accountable for understanding the academic content?
* Note: it is okay if the game becomes progressively more difficult from a gameplay/academic standpoint. It’s good to challenge the student, as long as it is at the appropriate level for the target age!

### Mechanics

* What are the controls for these physical movements?
* What are the physics of the movement through the game?
* What “skills” will the player need to play this game?
  + Examples: puzzle solving; manage resources; strategy; memory; drag and drop; tap on screen; rearranging pieces; platform jumping; etc.

### Losing Gameplay / Incorrect Concept Understanding

* What happens if a student loses a level or fails a mission / puzzle?
* How do they learn from their mistake(s)?
* If the student loses due to not understanding the academic content, how will the game help them learn from their mistakes?

### Mockups

* Show images of this part of gameplay here. Important items to show would be gameplay with the academic concepts integrated; the “losing gameplay” where students learn from their mistakes; and a good view of the mechanics

## Part 2 - [Name of this Portion of the Game]

### L.O. Concept(s) Covered

### Summary

### Mechanics

### Losing Gameplay / Incorrect Concept Understanding

### Mockups

## Part 3 - [Name of this Portion of the Game]

………

## Etc.

# LO Concept Coverage

### Academic Concepts

* Solve whole number division problems with whole-number quotients with up to four-digits and two-digit divisors, using strategies based on place value.
* Solve whole number division problems with whole-number quotients with up to four-digits and two-digit divisors, using strategies based on the properties of operations.
* Solve whole number division problems with whole-number quotients with up to four-digits and two-digit divisors, using strategies based on the relationship between multiplication and division.

# Legends of Learning Required Content Practices

### Checklist Overview

[Google Doc Reference](https://docs.google.com/document/d/10yED8ZwFXOWjwvroqZxaHn1A6utMDncaFwmyc8dqc-g/edit?usp=sharing)

|  |  |
| --- | --- |
| **ITEM** | **COVERED** |
| Players should learn and be held accountable through gameplay-based problem solving and experience. Players should not be learning primarily through text-based instruction or assessment items. |  |
| Game does not include multiple choice assessment items. |  |
| All instruction is scientifically and mathematically correct. |  |
| Confirm that the game is linked to 2/3 or 5 main concepts of the total, whichever is greater. Confirm that the linked main concepts are correctly covered in the game. |  |
| All on-screen words spelled correctly and grammatically correct. |  |
| Vocabulary and reading level appropriate for the lowest grade level within the target audience and grade band. |  |
| Game does not include material that is inappropriate for school. This includes, but is not limited to: violence, firearms, bombs, knives, daggers, blood, gore, smoking, vaping, drug use, any mind-altering substances, alcohol, harm to human-looking characters, harm to animals, insinuating killing or death, ideally they’re always chased away rather than eliminated. If there is conflict with an enemy in game, they are chased away rather than eliminated or killed. (There can be death if it is in the context of the learning objective – ex. The food chain) If you have any questions about this policy and your game, please ask us. |  |
| Game avoids any stereotypic presentation of gender, race, region, or culture. |  |
| Characters are diverse in gender, race, culture, and ability. |  |
| Players cannot simply click through and complete the game without learning. Players should be prompted to re-learn and re-do portions of the game where they had poor results due to less understanding of the academic material. Avoid the word “FAIL” if the student incorrectly understands academic material. |  |
| Academic problems are not consistently repeated. Players are presented with different problems to solve. |  |
| Gameplay mechanic reinforces the academic material, rather than being completely separate from instruction. I.e, there is a focus on academic reasoning rather than concept / question repetition. |  |
| Gameplay is intuitive and a player in the target age range can navigate the game and beat it with enough effort. |  |
| Games should be fun and interesting, designed as non-educational games are designed, with design to encourage players to keep playing. |  |
| Game is between 5 and 25 minutes in duration. |  |
| All text must be large, clear and concise with font sizes that can be read on a small Chromebook screen. |  |

### Connection Between Gameplay and Learning

* Expand on how the concepts are learned *as part of the gameplay mechanic.*
* Show mockups.

### Role of Text in Learning

* Describe the role of text in learning the academic material
  + NOTE FOR DEV: Stop yourself and rethink gameplay if the answer is that text is the primary mode the student absorbs information about the academic material.

### Characters - Diversity

* Describe the characteristics and appearance of the characters in the game.
* If the characters are human-like, are students/players able to customize?
  + NOTE FOR DEV: If using human characters in the game experience (not representing the player), please make sure:
    - Characters are diverse in gender, race, culture, and ability.
    - Stereotypes are avoided.
    - If you have any questions about this policy and how it might impact your game submission, please email us and we can help.
* Show mockups.
* [OPTIONAL] What are the characters’ relevance to the story?
* [OPTIONAL] What are the personalities of the characters?

# Technical

### Development Hardware/Software

* All development will be done in Windows 10.
* iPad 6 for tablet testing.
* Browsers: Firefox, Edge, Chrome, and Safari (via iPad 6)
* Game Engine: Unity 2022.3+

### Asset Summary [OPTIONAL]

* Simple bullet point list
* Differentiate if WebGL only, mobile only, or both
* You may link to an exterior spreadsheet if it is easier to categorize / show in that format.

### Music and Sounds [OPTIONAL]

* Simple bullet point summary [No sample needed]

# Art Style

### Mockups

* Show a few examples

# Schedule for Development + Delivery [Optional, but Encouraged]

* You may link to another document / spreadsheet if you like
  + If you do, just make sure viewing permissions are available :)

# [OPTIONAL] Story / Narrative

### Back Story

* If you would like to share this, present in any format you like

### Plot Elements

* If you would like to share this, present in any format you like