

## Lesson 5: Enhancing Gameplay with the Mid-Background and Trigger Tab

### Grade Level:

4th – 5th Grade (Optional extension for advanced 3rd grade groups)

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### Overview:

In this final lesson, students explore Bloxels' **advanced design tools** to add visual depth, event-based effects, and cinematic elements to their games. Using the **Mid-Background tab**, students can layer scenery and atmosphere between the foreground and sky. With the **Trigger Tab** (the icon that looks like an on/off switch), students can configure in-game events like music changes, weather shifts, door/key mechanics, and dramatic camera effects.

These tools allow students to go beyond basic game design and focus on creating **immersive player experiences**. After implementing at least one of these tools, students reflect on how their design choice changed the way the game feels.

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### Objectives:

- Students will use the Mid-Background tab to add depth and atmosphere to their level.
  - Students will use the Trigger Tab to apply special events like music, weather, camera angles, and door/key systems.
  - Students will test and revise their changes based on gameplay impact.
  - Students will reflect on how these tools improved storytelling, tone, or challenge.
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### Materials:

- Devices with Bloxels app
- Previously completed game file

- Optional: Reflection sheet or digital journal
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## Tools Introduced:

Feature	Description
<b>Mid-Background Layering</b>	Adds visual depth behind the terrain. Great for creating forests, mountains, buildings, etc.
<b>Trigger Tab</b> ( <i>on/off switch icon</i> )	Allows students to trigger in-game events when touching a block, such as: <ul style="list-style-type: none"><li>– Change music</li><li>– Change weather</li><li>– Lock a door using a key</li><li>– Zoom camera in or out (Vista, Shrink Ray, etc.)</li></ul>

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## Procedure:

### 1. Teacher Modeling (10–15 minutes):

- Show how to access the **Mid-Background tab** to add scenery between the background and game blocks.
- Show how to open the **Trigger Tab** (*on/off switch icon*) to configure blocks with special effects:
  - Trigger a **music change** when touching a block
  - Add **weather effects** (fog, rain, darkness)
  - Set up **key and door logic**, including inventory settings
  - Demonstrate **camera effects** (e.g., Vista, Shrink Ray, Super Jump)
- Emphasize using just **one or two features** thoughtfully, not all at once.

## 2. Student Exploration & Implementation (20–25 minutes):

- Students choose **at least one advanced tool** to apply to their game
- Encourage purposeful placement — for example:
  - Change music when approaching a boss
  - Use fog or rain when entering a cave
  - Trigger a camera zoom at the final jump
  - Create a locked area that requires a key

## 3. Testing & Reflection (10–15 minutes):

- Students test their game with the new elements and reflect on:
  - What tool they used and why
  - How it affected gameplay or storytelling
  - Any adjustments they made after testing

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### Differentiation:

#### All Grades (when used)

**Support** Allow students to try one feature at a time. Offer step-by-step visuals or pause modeling for reinforcement.

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### Assessment:

- Observe student testing and use of the Mid-Background and Trigger tools.
- Review student reflections for evidence of purposeful design choices.
- Optional: Peer feedback or sharing session to showcase creative use of advanced tools.