

# Week 9 Progress Report: Comprehensive Testing Suite

- Dates: 11/9 - 11/16

## Week 9 Goals:

- ✓ Polish UI for both preview and pause features
- ✓ Write comprehensive unit tests for pause/resume functionality
- ✓ Finalize preview integration and edge case testing

- LoC

- Test code:

- `tests/unit/test_pause_unit.py` : 214
    - `tests/unit/test_next_piece_preview_unit.py` : 252

## Summary of changes

- Files created:
  - `tests/unit/test_pause_unit.py`
  - `tests/unit/test_next_piece_preview_unit.py`
  - `tests/integration/test_pause_and_preview_comprehensive.py`

# Major Changes

## 1. `tests/unit/test_pause_unit.py` (20 tests)

- **Pause State Management Tests (6 tests)**
  - Initial state verification
  - Pause toggling on/off
  - Multiple consecutive pause intents
  - Click-to-resume functionality
  - Click behavior when not paused
- **Movement Prevention Tests (7 tests)**
  - LEFT, RIGHT, DOWN, SOFT\_DOWN movements blocked when paused
  - ROTATE and DROP intents blocked

# Test Results

✓ All 44 tests passing

- 20 unit tests for pause functionality
- 12 unit tests for preview rendering
- 12 comprehensive integration tests

## Other Notes

- Complete test coverage for pause/resume feature including edge cases and state preservation
- Comprehensive renderer testing for next piece preview with different piece types and rotations
- Integration tests verify both features work correctly together
- All tests use proper mocking to avoid pygame dependency issues in unit tests
- Test suite validates game state consistency and feature robustness