

11-14-25

## Matching Game - US Geography

### Game Description:

A timed matching game to practice US state abbreviations and capitals.

### Categories:

State Abbreviations (match state to abbreviation)

State Capitals (match state to capital)

### Game Flow:

- Player selects a category
- 10 rounds of 5 pairs each (all 50 states)
- Click to match pairs
- “Next” button after each round
- 5-minute timer for all rounds
- Win: Complete all 50 pairs within 5 minutes
- Lose: Timer runs out OR 5 incorrect matches

### Theme/Styling:

- Fun, educational design
- Map-based graphics or license plate graphics

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### Quick sample mockup

2:56

◀ Timer

Incorrect  
Answer ▶

California	Albany
Texas	Austin
New York	Sacramento
Utah	Salt Lake City
Kansas	Topeka

◀ Correct  
Answer

→  
Next

## USER STORIES

1. As a player, I want to choose between State Abbreviations or State Capitals so that I can practice the category I need to learn.
2. As a player, I want to see 5 pairs of items on screen at a time so that the game is manageable and not overwhelming.
3. As a player, I want to click on items to match them so that I can test my knowledge of US geography.
4. As a player, I want to see visual feedback when I make a correct match so that I know I got it right.
5. As a player, I want to see visual feedback when I make an incorrect match so that I know I made a mistake.
6. As a player, I want to see a timer counting down so that I know how much time I have left.
7. As a player, I want to click a "Next" button after completing each set so that I can progress through all 50 states.
8. As a player, I want to win by matching all 50 pairs within 5 minutes so that I feel accomplished.
9. As a player, I want to lose if the timer runs out so that the game has appropriate challenge.
10. As a player, I want to lose if I make too many wrong guesses so that the game rewards accuracy.
11. As a player, I want to see a win screen when I complete the game so that I feel rewarded for my success.
12. As a player, I want to see a lose screen with my stats so that I know how well I did and can try again.

## PSEUDOCODE

11-19-2025 (deleting from Javascript file)

```
/*-- PSEUDOCODE - US GEOGRAPHY MATCHING GAME --*/
```

```
/*
```

MVP - US GEOGRAPHY MATCHING GAME

DATA:

- 50 states array
- Selected category
- Timer: 20 seconds
- Max wrong guesses: 3

FLOW:

1. Choose category (abbreviations/capitals)
2. Randomly pick 5 states from 50
3. Display 5 pairs (left: states, right: shuffled answers)
4. Start 20-second timer
5. layer clicks to match
6. If correct: mark matched
7. If wrong: increment error counter
8. Win: All 5 matched before time ends
9. Lose: Timer = 0 OR 3 wrong guesses
10. Play Again: reset with new random 5

WIN: Match all 5 pairs within 20 seconds

LOSE: Time out OR 3 errors

```
*/
```