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K-12 Game Ideas

Using Engageli's Whiteboard

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PreK-3rd Grades



Identify the Missing Element



Objective: Develop early literacy and storytelling skills.

Setup:

- Draw a simple background scene on the whiteboard or insert an image file (for example, a park, forest, or city).
- Have a list of story prompts
 (e.g., "A dog finds a ball,"
 "An astronaut goes to space").

HOW TO PLAY

- Have students raise their hands and come to podium to participate in order.
- Students take turns adding a drawing, a note, or writing a word to build the story on the whiteboard.
- Encourage them to explain their additions aloud.
- Continue until the story is complete.

Interactive Phonics Race



Objective: Teach letter recognition, phonics, or sight words.

Setup:

- Divide the whiteboard into two or more lanes (like a racetrack).
- Write letters, words, or phonics sounds along each lane.
- Add fun visuals from image files like cars, animals, or rockets to represent players.

HOW TO PLAY

- Call out a letter, word, or sound.
- Students "race" by drawing their line or moving their object to the correct spot.
- The first student to complete their race wins!



Engagement Tip: Use fun themes like "Dinosaur Dash" or "Space Exploration" to align with student interests.

Identify the Missing Element



Objective: Students identify and complete a missing element in a sequence.











HOW TO PLAY

- Explain the Rules: Show the displayed pattern and explain that it follows a rule or sequence. The challenge is to figure out what comes next in the blank space ().
- **Student Participation:** Ask students to raise their hands or write/draw their answer on the whiteboard.
 - Example answers: blue circle: "

 " or yellow circle: "

 "

Feedback:

Acknowledge correct answers and encourage discussion:

- "Why do you think) is the answer?"
- "What happens if we add \(\textit{\text{\tint{\text{\tin}\text{\texi\text{\texi}\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\texi}\text{\texit{\texi}\tex{\text{\text{\text{\text{\text{\texi}\text{\texi}\text{\texit{\ti Does it match the rest of the pattern?"

Continue with New Patterns:

Change the shapes or introduce more complex patterns: (Introduce doubling or skipping rules.)

- 1, 2, 4, 8, 16, __, __ (Introduce numerical growth or multiplication.)

Color Sorting Challenge



Objective: Teach colors, shapes, and categorization.

Setup:

- Draw several "buckets" or "bins" on the whiteboard, each labeled with a color or shape.
- Have a list or items (e.g., apples, squares, crayons) ready.

HOW TO PLAY

- Call out or display an object.
- Students "sort" it by drawing it in the correct bucket or moving pre-drawn objects into place.
- Continue until all items are sorted.



Engagement Tip: Use seasonal themes (e.g., pumpkins for fall, snowflakes for winter).

Draw and Guess



Objective: Encourage creativity and vocabulary development.

Setup:

- Create a list of words or pictures related to a topic (e.g., animals, shapes, or seasons).
- Have these ready on a separate list for you to call out.

HOW TO PLAY

- One student draws the word or object on the whiteboard.
- The rest of the class guesses what it is.
- Rotate drawers to keep everyone involved.



Engagement Tip: Add a timer for each drawing to keep the game fast-paced.

Number Line Hop



Objective: Build number sense and basic math skills.

Setup:

- Draw a large number line across the whiteboard (e.g., 1–20).
- Add fun decorations like stepping stones, clouds, or lily pads from image files or drawings.

HOW TO PLAY

- Call out a math problem (e.g., 2 + 3).
- Students "hop" by drawing a path or marking the correct answer on the number line.
- For group play, divide students into teams and take turns.



Engagement Tip: Incorporate story elements, like a frog hopping across lily pads to find a pond.

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4th-8th Grades



Mystery Phrase (Hangman with a Twist)

Objective: Teach vocabulary, spelling, or concepts.

Setup:

- Draw blank spaces for a word or phrase related to the topic you're teaching.
- Add a hint (e.g., "This is a type of energy").

HOW TO PLAY

- Students take turns guessing letters.
- If a student guesses incorrectly, draw part of a character (e.g., head, body, arms, etc.).
- The goal is to guess the word or phrase before the character is fully drawn.



Engagement Tip: Add bonus rounds with themed categories (e.g., famous inventors, book titles, or periodic elements.

Math Escape Room



Objective: Practice math skills with puzzles and challenges.

Setup:

- Create a series of math challenges on the whiteboard (e.g., equations, fractions, word problems).
- Each solved challenge gives a "clue" or unlocks the next puzzle.
- 3. Example: "Solve 3x + 2 = 17 to unlock the key to the next door."

HOW TO PLAY

- Divide students into teams.
- Each team works together to solve the problems, progressing through the "escape room."



Engagement Tip: Add a story theme, such as escaping a haunted castle or unlocking a treasure chest.

Digital Pictionary



Objective: Build creativity and reinforce lesson concepts.

Setup:

- Prepare a list of words or concepts related to your lesson (e.g., historical events, scientific terms, literary themes).
- Use the whiteboard drawing tool for students to illustrate.

HOW TO PLAY

- One student draws while the others guess the word.
- Set a timer for added excitement.
- Award points for correct guesses.



Engagement Tip: Use themed rounds (e.g., "All words are related to space").

Quiz Show Game



Objective: Test knowledge in a fun, competitive format.

Setup:

- Divide the whiteboard into categories (e.g., Math, Science, History, Literature).
- Under each category, list point values for questions (like Jeopardy).

HOW TO PLAY

- Students choose a category and point value.
- Display the question; they must answer correctly to earn points.
- Example: "Science for 200: What is the process of water turning into vapor?".



Engagement Tip: Let students "raise their hands" to answer first.

Sentence Scramble Race



Objective: Improve grammar, sentence structure, or writing skills.

Setup:

- Write out scrambled sentences or phrases related to the subject on the whiteboard.
- Example: "blue sky The is today." →
 "The sky is blue today."

HOW TO PLAY

- Divide students into teams.
- Each team takes turns unscrambling a sentence.
- Points are awarded for correct answers.



Engagement Tip: Add time limits or bonus points for faster teams.

Map Challenge



Objective: Teach geography, history, or current events.

Setup:

- Draw or upload a map to the whiteboard app.
- Prepare clues about locations or events (e.g., "This country hosted the Olympics in 2021").

HOW TO PLAY

- Students take turns identifying the location based on clues.
- Mark the correct answer on the map.



Engagement Tip: Add layers of difficulty by focusing on regions, landmarks, or historical battles.

Whiteboard Story Building



Objective: Develop creativity and teamwork.

Setup:

- Write a story starter on the whiteboard (e.g., "It was a dark and stormy night when...").
- Leave space for students to contribute.

HOW TO PLAY

- Each student adds one sentence or phrase to the story.
- The story continues until everyone has contributed



Engagement Tip: Set rules like "Each sentence must include a mystery element" or Add dialogue to your turn."

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High School



Digital Escape Room



Objective: Solve subject-related puzzles to "escape" within a time limit.

HOW TO SET UP

- 1 Create a Storyline: Set up a scenario (e.g., "You're locked in a science lab and must solve equations to escape").
- **Design Clues & Challenges:** Use different subject areas:
 - Math: Solve an equation to get a key number.
 - Science: Identify elements from their atomic numbers.

- History: Arrange events in chronological order.
- Literature: Match quotes to their authors.
- 3 Lock & Timer: Use the whiteboard to display the challenges, set a time, and students race against time.



Engagement Tip: Use hidden hints (e.g., QR codes, word scrambles) and allow collaboration.

Whiteboard Debate Game



Objective: Enhance students' argumentation and critical thinking skills.

HOW TO SET UP

- 1 Create a Topic: Pick a current event or subject-related debate (e.g., "Is AI more beneficial or harmful to society?"
- Create Two Columns: Label "Pro" and "Con" on the whiteboard.
- **3 Student Participation:** Assign students to teams, and each team writes key points under their stance.

4 Rebuttal Phase: Opposing teams counter-argue using whiteboard space.



Engagement Tip: Use a "mystery box" where students pick a random debate topic.

Concept Mapping Challenge



Objective: Visually organize and connect complex concepts.

HOW TO SET UP

- 1 Start with a Central Topic: (e.g., "Photosynthesis" for biology, "Shakespearean Tragedies" for literature).
- 2 Branch Out Key Ideas: Students take turns drawing and linking related terms (e.g., "light energy → chlorophyll").

Race Against Time: Teams get points for correctly linking concepts with a time limit.



Engagement Tip: Use color-coding (e.g., red for misconceptions, green for key facts.

"Who Am I?" Challenge



Objective: Teach historical figures, scientists, authors, or literary characters.

HOW TO SET UP

- 1 Write a set of clues on the whiteboard: (e.g., "I wrote about the theory of relativity").
- 2 Students guess in teams: (each team gets one guess per round).

Points for accuracy: The **faster** they guess, the **more points** they get.



Engagement Tip: Let students create their own mystery figures for classmates to guess!

Digital Jeopardy



Objective: Test knowledge in a competitive format.

HOW TO SET UP

- 1 Create a Jeopardy board on the whiteboard:
 - Add categories like Math, Science,
 Literature, History, Pop Culture.
 - Assign point values (e.g., "History for 200 points").

- 2 Students select and answer questions:
 - If they answer correctly, they earn points.
 - If wrong, the next team gets a chance.



Engagement Tip: Use a daily double round where teams can wager points!

Whiteboard Pictionary — Advanced Edition

Objective: Reinforce vocabulary, literary terms, or scientific concepts.

HOW TO SET UP

- Write terms on flashcards: (e.g., "Osmosis" for biology, "Metaphor" for literature).
- 2 One student draws, others guess.
- Faster guesses = more points.



Engagement Tip: Use categories like "Hard Mode" for abstract concepts (e.g., "Irony").

Mind Map Battle



Objective: Organize information into categories and subcategories.

HOW TO SET UP

- 1 Choose a subject (e.g., "The Industrial Revolution").
- 2 Teams race to complete a mind map.
- The team with the most accurate and detailed map wins.



Engagement Tip: Use a lightning round where students must quickly add connections.

"Solve the Mystery" — Logic Puzzle Game

Objective: Apply critical thinking and deduction to solve a case.

HOW TO SET UP

- 1 Create a crime scene story: "A famous scientist went missing. Solve the case!"
- Provide clues: Students must solve math problems, analyze a historical event, or answer physics questions to unlock more clues.

Teams write theories on the whiteboard until they find the answer.



Engagement Tip: Introduce **red herrings** (false leads) to make it more challenging.

Mathematical Code Breaker



Objective: Solve math-based riddles to unlock a final answer.

HOW TO SET UP

- 1 Create a hidden message using equations (e.g., Solve "x = 5" to get a letter in the answer).
- 2 Teams solve each step to unlock the full answer.



Engagement Tip: have students work backward by creating their own encrypted messages.

Explain it Like I'm Five



Objective: Simplify complex concepts for peer teaching.

HOW TO SET UP

- **1 Assign advanced topics** (e.g., "Explain quantum mechanics").
- 2 Students must draw and describe the concept on the whiteboard.
- **3 Challenge mode:** Others must guess the topic based on simple explanations.



Engagement Tip: Give points for **creativity** and **accuracy**.

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Thank You