

Wordwall: Create Interactive Learning Activities

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1. PROBLEM IDENTIFICATION

Traditional teaching methods often rely on passive listening or rote memorization, which can make the learning process less engaging for students. Such methods limit opportunities for active participation, reducing attention, comprehension, and long-term retention. They also fail to fully address the needs of different learning styles (visual, auditory, or kinesthetic) making it difficult for some students to grasp concepts effectively. Additionally, the lack of instant feedback in conventional methods hinders students from self-correcting their mistakes. Moreover, traditional approaches rarely incorporate collaboration, critical thinking, or problem-solving activities, and they lack the motivational elements (like rewards or games) that can make learning more enjoyable and memorable.

2. PROPOSED SOLUTION

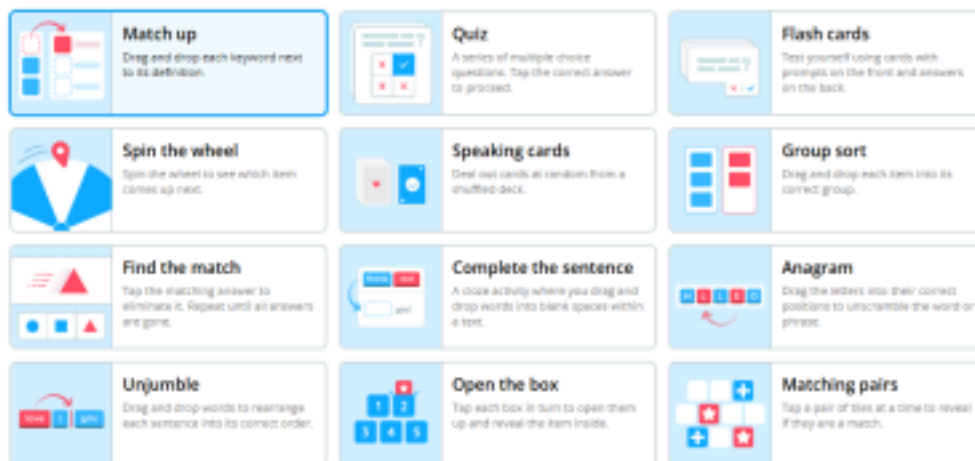
Interactive tools like Wordwall can transform the learning process by making it student-centered, engaging, and hands-on. With features such as quizzes, match-up games, crosswords, and drag and-drop activities, students are encouraged to actively participate, which enhances attention, understanding, and retention. Wordwall supports different learning styles and provides instant feedback, helping learners self-correct while allowing teachers to track progress and address learning gaps. Its ready-to-use templates save teachers valuable preparation time, while gamification elements like points, badges, and leader-boards keep students motivated. Since Wordwall is accessible across devices, it works well in classroom, hybrid, or remote setups and can be used for personalized practice. Group activities also promote teamwork, collaboration, and discussion, aligning with 21st century learning skills such as digital literacy, critical thinking, and problem-solving.

3. HOW TO USE

Step 1: Sign Up / Log In

1. Go to [Wordwall.net](https://www.wordwall.net).
2. Click Sign Up if you don't have an account, or Log In if you already do.
3. You can use email, Google, or Microsoft accounts.

4. Once logged in, you will reach your dashboard, where you can create, manage, and track activities.



Step

2: Create a New Activity

1. Click the “Create Activity” button on the dashboard.
2. Wordwall offers different activity templates. Here are some common ones:
 - **Quiz** – Multiple-choice questions for testing knowledge.
 - **Match Up** – Match terms with definitions, images, or sounds.
 - **Word Search** – Hide words in a grid for fun vocabulary practice.
 - **Crossword** – Build puzzles using key terms.
 - **Random Wheel** – Spin a wheel to assign questions, tasks, or rewards.
 - **Group Sort** – Sort items into categories.
 - **Maze, Unscramble, Label, etc.** – Other fun, interactive formats.

Step 3: Enter Your Content

1. Give your activity a title, e.g., “*Fun with Physics – Quiz*”.
2. Add your questions and answers (for quizzes) or terms and definitions (for matching games).
3. Add images or audio to make the activity more engaging for younger students.

Example: Quiz on National Symbols of India

Question **Option 1** **Option 2** **Option 3** **Option 4** What is the SI unit of force? Pascal

What is the speed of light in vacuum?

Which type of energy is possessed by a moving object?

$3 \times 10^4 \text{ m/s}$	$3 \times 10^6 \text{ m/s}$	$3 \times 10^8 \text{ m/s}$	$3 \times 10^{10} \text{ m/s}$
Potential Energy	Kinetic Energy	Thermal Energy	Chemical Energy

Which force keeps planets in orbit around the Sun? **Gravitational Force**

Magnetic Force
Electrostatic Force
Nuclear Force

Example: Match-Up Game (Shuffle the matching terms)

Term Match

Kinetic Energy Energy of a moving object

Potential Energy Energy stored in an object due to position

Acceleration due to gravity 9.8 m/s^2

Speed of light $3 \times 10^8 \text{ m/s}$

Ohm Unit of Resistance

Step 4: Customize the Activity

- Click Settings. Options include:
 - Shuffle questions/answers – Makes each attempt unique.
 - Show correct answers immediately or at the end.
 - Add a timer to make it more challenging.
 - Select points per question or scoring rules.
- Choose a color theme and font style to make it visually appealing.

Step 5: Preview the Activity

- Click Preview to see how your students will experience the activity.
- Test all questions, images, and interactions.
- Adjust difficulty, wording, or layout if needed.

Step 6: Publish and Share

- Click Save & Publish when ready.
- Wordwall offers multiple sharing options:
 - Direct Link – Share via email, WhatsApp, or Google Classroom.
 - QR Code – Students can scan to access the activity.
 - Embed – Embed in your class website, LMS, or Google Sites.

Step 7: Track Results

- If students use the tracked link, you can see who has attempted the activity.

2. Analyze scores to identify topics needing reinforcement.
3. Use reports to reward high-performing students or provide additional practice.

Step 8: Tips for Effective Activities

- Use images, icons, and audio for better engagement.
- Keep questions short and clear.
- Mix question types for variety: MCQs, match-ups, and puzzles.
- Gamify learning: Leader-boards, points, and badges increase engagement.
- Update content periodically to align with current syllabus or special events (e.g., National Festivals).

Step 9: Ready to Use Example Idea: “Newton’s Laws of Motion”

1. **Quiz** – Create 15 multiple-choice questions covering the three laws of motion, key concepts like inertia, force, acceleration, action-reaction pairs, and examples from daily life.
2. **Match-Up** – Terms related to Newton’s Laws (e.g., Inertia, Force, Action-Reaction, Mass, Acceleration) matched with their definitions or examples.
3. **Random Wheel** – Students spin a wheel to get a question or scenario from Newton’s Laws and answer within a time limit (e.g., 30 seconds).
4. **Word Search** – Include keywords from Newton’s Laws such as Inertia, Force, Mass, Acceleration, Action, Reaction, Motion, Friction, Gravity, Velocity hidden in a grid for fun and interactive revision.

4. EXPECTED OUTCOMES

Using interactive tools like Wordwall in the classroom is expected to significantly enhance student engagement and learning outcomes. Students will develop a deeper understanding of concepts through active participation, hands-on activities, and instant feedback. Knowledge retention is likely to improve, as gamified elements like points, badges, and leader-boards make learning enjoyable and memorable. Additionally, students will strengthen critical thinking, problem solving, and collaboration skills through group activities and challenges. Teachers will benefit from reduced preparation time, easy tracking of student progress, and the ability to provide personalized learning experiences, bridging individual knowledge gaps and supporting diverse learning styles.

5. FUTURE DIRECTIONS

In the future, platforms like Wordwall can evolve to include AI powered adaptive learning, where activities automatically adjust to a student’s skill level and learning pace. Integration with school Learning Management Systems (LMS) and educational apps can provide a more seamless classroom experience. Gamification can be expanded further with virtual rewards, competitions, and cross class leader-boards to motivate students on a larger scale. There is also potential for incorporating multi sensory learning elements such as augmented reality (AR), audio narration, and interactive simulations, making lessons more immersive. Ultimately, these advancements will help create inclusive, student centered classrooms that foster lifelong learning and digital literacy while preparing students for the challenges of the 21st century.

Video link - <https://youtu.be/kRcdjKh2cR0>