



# INVENTIONS

## Specific Inventions to Explore

Do research and prepare a short introduction/presentation.

## Younger Students

### Great Inventions

Printing press

wheel

light bulb

### Possible Inventions

A real-time language translator [*breaking down communication barriers*]. Focus on the design and how it can be used.

### Dream Recorder

A [*playful*] concept for discussions about imagination and memory. Brainstorm how it can capture dreams [*think of colorful lights, happy sounds, etc*]

## Redesigning Everyday Items

- Choose an everyday item and redesign it for improved functionality, sustainability, or beauty.
- Sketch your ideas, create a 3D model, or write a descriptive explanation of your redesigned product.

## Inventor Spotlight

- Research a famous inventor and present your findings to the class.
- The presentation can cover the inventor's life, their most notable inventions, and their impact on the world.
- This can be done as a biography presentation or a role-playing activity where you act as the inventors.

## Specific Inventions to Explore

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## Older Students

### Great Inventions

Internet                      solar panels                      self-driving cars

### Inventions With a Story

Penicillin - the accidental discovery that revolutionized medicine

Sticky notes - a happy mistake that became a billion-dollar idea

Post-it notes - another happy mistake leading to a widely used product

### Inventions With a Local Connection

Research inventions created in your area or by people from your region.

This can spark local pride and connect inventions to real people.

### Invention Challenge

In groups, look at ways to solve these problems

**How to clean up space junk.** *[Example: A spacecraft that uses powerful magnets to attract and capture pieces of debris].*

**Make learning more fun.** *[Example: Personalized AI companions that answer student questions, offer explanations and even crack jokes to keep things engaging]*

**Traffic Flow Fixer.** *[Example: An invention that helps alleviate traffic congestion, like a system that adjusts traffic lights for optimal flow or self-driving cars and robot taxis that coordinate for better spacing.]*

**The Ultimate Stain Remover.** *[Example: A safe and effective cleaning solution that tackles any stain imaginable, from food spills to permanent markers.]*

**The Always-Fresh Fridge:** *[Example: A refrigerator that keeps food fresh for significantly longer periods, reducing food waste and grocery trips].*

Each group brainstorms an invention to address the problem.

Present your invention to the class, explaining its function and benefits.