

Earth's Natural Resources Presentation (Grade 7 Science)

Overview: A 15+ slide PowerPoint presentation covering natural resources, renewable vs. nonrenewable resources, conservation, recycling, and the **Three R's** (Reduce, Reuse, Recycle). Each slide has a clear title, key bullet points (in simple English), and suggestions for relevant images or icons to make it visually engaging for middle school students.

Slide 1: Earth's Natural Resources 🌍 (Title Slide)

- *No bullet points (title slide).*
- *(Subtitle: "Renewable vs Nonrenewable, Conservation & Recycling")*
- **Suggested Image:** A photo of Earth or a nature scene as background.

Slide 2: What Are Natural Resources?

- Materials from Earth that living things need and use ¹.
- Come directly from nature (not made by people) ².
- Examples: trees, water, soil, air, and sunlight ².
- **Suggested Image:** An icon or picture showing natural elements (e.g. trees, water, sun).

Slide 3: Examples of Natural Resources

- **Plants and Trees** (🌳) – provide wood, paper, and food ³.
- **Water** (💧) – used for drinking, cleaning, farming; essential for life ².
- **Air** (💨) – needed for breathing by people and animals ².
- **Soil** (🌱) – helps to grow plants and crops ².
- **Sunlight** (☀️) – gives energy for plants; cannot be used up ⁴.
- **Suggested Image:** A collage of a tree, water, and sun, or separate small icons for each example.

Slide 4: Renewable Resources

- Can be replaced or regrown in a short time ⁵.
- Replenished by nature or by people (e.g. planting new trees) ⁵.
- Examples: trees, crops (new ones grow each year) ⁵.
- Sunlight, air, and water are always available and won't run out ⁴.
- **Suggested Image:** A young tree sapling or a field of crops (to represent renewal).

Slide 5: Nonrenewable Resources 🛢️

- Cannot be easily replaced once they are used up ⁶.

- Earth can **run out** of these; once gone, they're gone ⁶ .
- Examples: fossil fuels like coal, oil, natural gas (used as fuel) ⁷ .
- We cannot make more of them in a short time ⁸ .
- **Suggested Image:** A piece of coal, an oil pump, or gas pump icon (representing fossil fuels).

Slide 6: Why Conserve Resources?

- Many resources (especially nonrenewables) are limited ⁶ .
- We want resources to be available in the future ⁹ .
- If we use them too fast, they could run out or get wasted ⁹ .
- Taking care of resources now means future generations can meet their needs ⁹ .
- **Suggested Image:** An hourglass or a child planting a tree (symbolizing saving resources for the future).


Slide 7: What is Conservation?

- **Conservation** = careful use of natural resources ¹⁰ .
- Use only what you need; **don't waste** resources ¹¹ .
- Prevents resources from being used up too quickly ¹⁰ .
- *Example:* Turn off lights and water when not in use (saves electricity & water) ¹² .
- **Suggested Image:** An icon of a light switch and water faucet turned off (representing saving energy and water).

Slide 8: Ways to Conserve (Use Less)

- **Turn off lights** when you leave a room – saves electricity ¹² .
- **Turn off the faucet** while brushing teeth – saves water ¹² .
- **Use cars less** (carpool or walk/bike) – saves gasoline ¹³ .
- Using less gasoline also **reduces air pollution** ¹⁴ .
- **Suggested Image:** Icons for a light bulb, a water droplet/tap, and a car with a red "X" (to signify using less).

Slide 9: Ways to Conserve (Reduce & Reuse)

-  **Use reusable bags** or backpacks instead of new paper bags ¹⁵ .
- Reusing bags means fewer new bags need to be made ¹⁶ .
- Fewer new bags = saving trees (less paper needed) ¹⁶ .
- Use items more than once instead of throwing them away after one use.
- **Suggested Image:** A reusable shopping bag icon, or a person with a cloth grocery bag (to illustrate reusing).

Slide 10: The Trash Problem

- Many products we use are made from natural resources ¹⁷ .
- After using them, people often **throw these items in the trash** ¹⁸ .
- Most trash goes to **landfills** (huge garbage burial sites) ¹⁹ .

- Landfills are filling up – we’re running out of places to bury trash ²⁰ .
- Burning trash is another option, but it causes air pollution ²¹ .
- **Suggested Image:** A photograph of a landfill with heaps of garbage, or a trash can overflowing.

Slide 11: Solutions – Reduce Waste

- The best solution to the trash problem is to **create less trash** ²² .
- **Reduce** the amount of waste you produce – use less and throw away less ²³ .
- **Reuse** items instead of single-use (e.g. use empty jars for storage) ²⁴ .
- Reusing means fewer new resources are needed to make new things.
- Bring your own bags to the store to cut down on waste ¹⁵ .
- **Suggested Image:** A recycle symbol or a “reduce, reuse” icon, plus an image of a glass jar being reused.

Slide 12: What is Recycling?

- **Recycling** = processing used materials so they can be used again ²⁵ .
- Many items can be recycled: paper, glass, metal (aluminum), plastic ²⁶ .
- Recycled items go to a **recycling center** instead of a landfill ²⁷ .
- At the center, materials are prepared and turned into new products ²⁵ ²⁸ .
- **Suggested Image:** The recycling symbol, or labeled recycling bins for paper, glass, metal, and plastic.

Slide 13: How Recycling Works (Aluminum Cans)

- Used aluminum cans are collected and sent to a recycling center ²⁹ .
- At the center, cans are **chopped into small pieces** ²⁸ .
- High heat **removes any paint** from the metal pieces ²⁸ .
- The clean metal is **melted** in a furnace ²⁸ .
- Liquid aluminum is poured into molds to form **new cans** ²⁸ .
- **Suggested Image:** A sequence showing an old soda can -> shredded pieces -> molten aluminum -> a new can.

Slide 14: Remember the Three R's

- **Reduce** – use fewer resources and create less waste ²³ .
- **Reuse** – use things again instead of throwing them away ²³ .
- **Recycle** – turn used items into new products to use again ³⁰ .
- By following the 3 R's, we conserve resources and help our planet ³¹ .
- **Suggested Image:** A graphic showing “**Reduce, Reuse, Recycle**” in a cycle (e.g. the 3 arrows recycling symbol with each R labeled).

Slide 15: Conclusion

- Natural resources are essential for life – we must use them wisely ⁹ .
- Renewable resources can be replaced, but nonrenewable ones can **run out** ⁶ ⁷ .
- Conservation and the 3 R's (Reduce, Reuse, Recycle) protect resources for the future ²³ .

- Everyone can help by saving energy, reducing waste, and recycling ²⁴ .
- **Suggested Image:** A happy Earth or people holding Earth, to inspire taking care of the planet.

Slide 16: Quiz Time! ?

- **Q1:** Are trees renewable or nonrenewable resources? Why? ³² .
- **Q2:** Why are coal and oil considered nonrenewable resources? ³² .
- **Q3:** Name some things that can be recycled ³² .
- *(Discuss answers as a class to review key concepts.)*
- **Suggested Image:** A question mark icon or a light bulb (to represent thinking).

The PowerPoint presentation file is ready for download below. Open it to view the 16 slides with titles, bullet points, and suggested visuals:

<details><summary>**Download PPTX (Base64 encoded)**</summary> <p>

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