



Midde Science Virtual Learning

7th Grade Science

Land Pollution

May 1st, 2020



7th Grade Science: EARTH SCIENCE

Lesson: May 1st, 2020

LEARNING TARGET: I Can model the impact of land pollution on the environment.

Bell Ringer Activity

1. Create and label the T-Chart that you see here.
2. Organize the words provided into the appropriate column.

motor oil
plastic bags
cigarette butts
soil
dead leaves
aluminium cans
sludge
water
paper
tree branches
plastic cups

Land Pollution	Eco Friendly

Soil Pollution and Its Effects

1. Read the passage on this slide and the next as well.
2. On your paper write down 10 facts (be thorough as this will aid your work as we progress).

Soil (Land) pollution is the contamination of the soil due to the presence of man-made chemicals and waste. The main sources of soil pollution include: industrial activity, agricultural activity, waste disposal, accidental oil spills, acid rain, pesticides, herbicides, large landfills, and nuclear waste generated from nuclear reactors and weapons. These chemical substances are not present in nature, but made in laboratories and industrial plants.



When these substances come in contact with the soil, the contaminants in the soil are physically or chemically attached to soil particles, or, if they are not attached, they are trapped in the small spaces between soil particles." These substances stay attached to the soil particles until they come in contact with water. Most of the molecules which make up these substances will wash away with water that runs across the surface of the soil or water that filters through the soil. The molecules that are carried by water empty into local streams and water sources.

Water filtering down through the soil carry these molecules down into the water table and aquifers. If the concentration or amount of the chemicals is high, local water sources, aquifers and the water table will become contaminated. Soil pollution poses a serious problem to human health. Crops and plants grown on polluted soil absorb much of the pollution through water taken up by these plants. When we eat these plants, the chemicals are passed on to humans. Long term exposure to these chemicals can affect the genetic makeup of the body by altering or damaging the DNA within the cells. This may explain the sudden surge or increase in chronic health problems and terminal illnesses such as cancer.



Find Solutions

1. Follow the link below and research solutions to to land/soil pollutions.
2. Write as many of those solutions on you paper then proceed to the next slide.

[Land/Soil Pollution](#)



Use Your Learning

1. Follow the link and play both games: Take the Recycle Challenge & Play the Dumptown Game
[Recycle City Games](#)



Instructions:

1. Print or copy this one-pager on your own paper.
2. Translate the written solutions on the left into picture and symbols on the right.

1. Make people aware of the concept of Reduce, Recycle and Reuse.

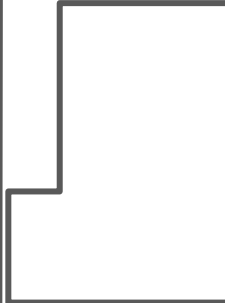
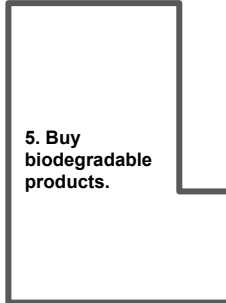
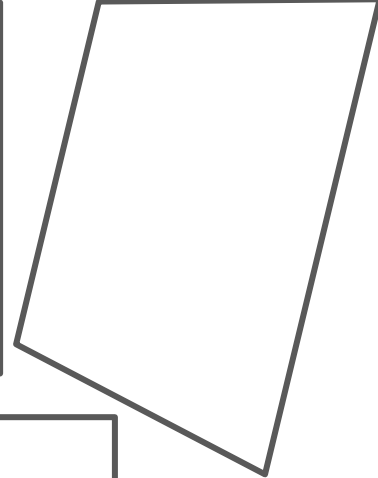
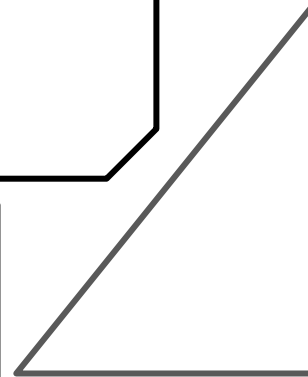
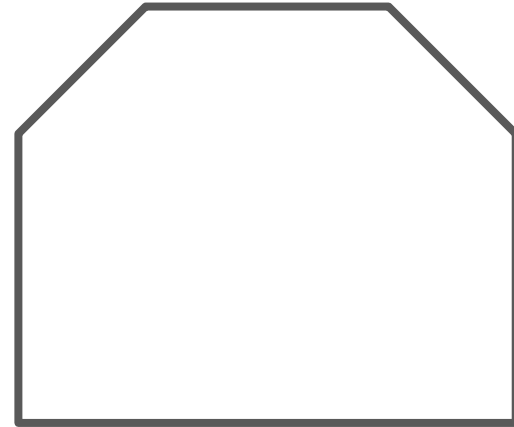
2. Reduce the use of pesticides and fertilizers in agricultural activities.

3. Avoid buying packages items as they will lead to garbage and end up in the landfill site.

4. Ensure that you do not litter on the ground and do proper disposal of garbage.

5. Buy biodegradable products.

7. Create dumping ground away from residential areas.



Land Pollution

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Eco Friendly

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