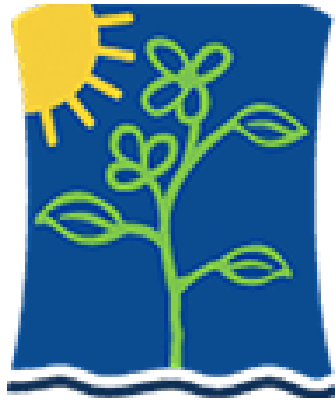




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Methane Mayhem





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Methane Mayhem

All trash ends up in a landfill, a large hole in the ground where waste sits forever.

Trash gets so compacted together, it is depleted of any oxygen. As waste rots without oxygen, it releases a harmful gas into our atmosphere called methane.



Supplies Needed

- 1 to 3 plastic bottles
- 1 to 3 balloons
- Tape
- Funnel
- Fruit/veggie scraps (banana peel works best)
- Water

The process of decomposing without oxygen is called anaerobic decomposition.



Methane Mayhem



1. Cut up the food scraps and place each kind of scrap in their own bottle. Fill halfway up with scraps.

2. Fill each bottle full to the top with water. There should be little to no room for any oxygen.

3. Cover each bottle top with a balloon. Tape around the neck of the bottle to seal tight.



Methane Mayhem

- 4.** Place in a sunny area and observe over several days. As the food breaks down without oxygen, it will release methane and inflate the balloon.

Methane is 25 times more potent than carbon dioxide, and can trap more heat in our atmosphere, contributing to global warming.



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Visit www.kgmb.org for more activities

Source:

<https://www.raisingglobalkidizens.com/banana-water-landfill-emissions-experiment/>