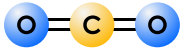


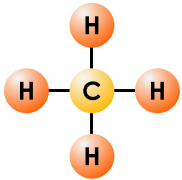
# LFG, a Source of Energy?

Name: \_\_\_\_\_

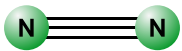
**Directions:** Use the available resources to locate a working definition related to landfill gas (LFG) for each of the following terms. Write the term on one side of a blank card and the definition on the reverse side. Then sort and classify the cards to help answer the questions that follow.



CO<sub>2</sub>



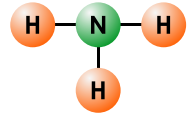
CH<sub>4</sub>



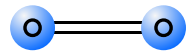
N<sub>2</sub>

Anaerobic bacteria  
C & D landfill  
Chemical reactions  
Decomposition  
Emissions  
Groundwater levels  
Hydrocarbons  
Methanol  
MSW landfills  
Natural pathways  
Permeability  
Solid waste  
Water vapor  
Gas turbine  
Incineration  
Methanogenic bacteria  
Waste composition

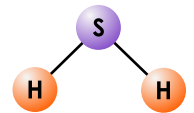
Bacterial decomposition  
Carbon dioxide  
Contaminates  
Diffusion  
Flared  
Hazardous waste landfills  
Methane  
Migrate  
NMOCs  
Non-hazardous waste  
Pressure  
Volatilization  
Internal combustion engine  
Fuel cell  
Neutral environment  
Age of refuse  
Oxygen



NH<sub>3</sub>



O<sub>2</sub>



H<sub>2</sub>S

1. What are four components of landfill gas?
2. How is landfill gas produced?
3. What organisms are present during the decomposition process when the landfill becomes a neutral environment?
4. What are some of the conditions that affect landfill gas production?
5. How does landfill gas migrate?
6. What are some ways LFG can be handled once it is collected?