

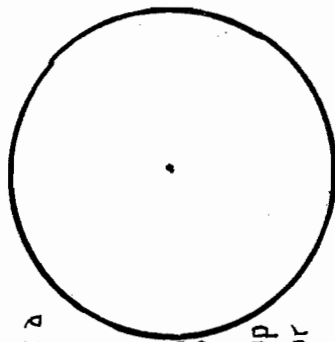
Our goal is to find out what is in the mixture we call our air.

Weather Watcher

what is air made of?



investigation 2



make a pie graph showing the makeup of our air

Key to colors used =

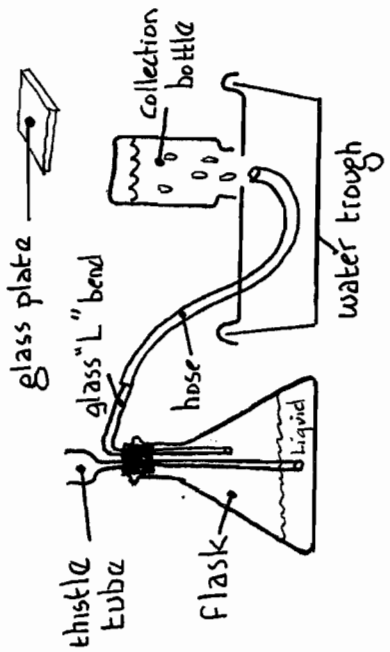
fold and glue onto page 122 of Bob

GASES IN THE ATMOSPHERE			
Gas	Chemical Symbol	Percentage	Uses
Nitrogen	N ₂	78%	used in fertilizers, amino acids, nitroglycerin
Oxygen	O ₂	21%	needed by most living things; used as fuel for rockets in its liquid form
Argon	Ar	.94%	used in light bulbs
Carbon dioxide	CO ₂	.03%	used by plants in making food
Water vapor	H ₂ O	0-4%	needed by all living things
Neon	Ne	trace	advertising signs
Helium	He	trace	used in rockets and weather balloons
Methane	CH ₄	trace	used in industry, home heating, and gas (for cooking)
Krypton	Kr	trace	used in fluorescent lights
Hydrogen	H ₂	trace	used as a fuel; used to cool electric generators and motors; used in the production of ammonia
Xenon	Xe	trace	used to fill flash bulbs
Ozone	O ₃	trace	used for disinfecting, cleaning and removing odors

standard 51b, 51c, 53e, 57a, 58a, 58b, 58c

Bob

what's in the air?



explain how to collect a gas by water displacement.

Investigation 2



explain what happens in these demonstrations

oxygen O₂
 hydrogen peroxide H₂O₂
 manganese dioxide MnO₂

hydrogen H₂
 zinc Zn
 hydrochloric acid HCl

carbon dioxide CO₂
 marble chips
 hydrochloric acid HCl

other items in our air:

What did you learn because you went to science class today?