

# weather watch

## investigation 2

- notebook setup
- glossary words

writing at the top of these pages

Draw Die chart in color

Fold into a booklet and glue to page 122

122 | What is air made of? Investigation 2 | The atmosphere 123

**weather watch** what is air made of?

make a die chart showing the makeup of our air

Key to colors used =

GASES IN THE ATMOSPHERE			
Gas	Chemical Symbol	Percentage	Uses
Nitrogen	N <sub>2</sub>	78%	used in fertilizers, nitric acids, nitroglycerine
Oxygen	O <sub>2</sub>	21%	needed by most living things; used as fuel for rockets in its liquid form
Carbon dioxide	CO <sub>2</sub>	0.04%	used in light bulbs
Water vapor	H <sub>2</sub> O	0-4%	needed by all living things
Helium	He	trace	airborne signs
Neon	Ne	trace	used in neon signs and weather balloons
Methane	CH <sub>4</sub>	trace	used in industry, home heating, and gas (for cooking)
Krypton	Kr	trace	used in fluorescent lights
Xenon	Xe	trace	used in a few special uses, such as in the production of uranium
Radon	Rn	trace	used in some types of cancer treatment
Ozone	O <sub>3</sub>	trace	used for disinfecting, bleaching, and sterilizing water

**weather watch** atmosphere

Describe the layers of the atmosphere.

When does space start? (height)

What part of the atmosphere is of interest to meteorologists? (why?)

writing

you will draw a color atmosphere chart

124 | the atmosphere. 125

my chart of the atmosphere

altitude (0-5000)

ground level

**weather watch**

Journal entries

date \_\_\_\_\_ date \_\_\_\_\_

date \_\_\_\_\_ date \_\_\_\_\_

journal entries (one for each day that you have science)

writing at the top of pages

126 | properties of air Investigation 2 127

investigation 2- properties of air

air has mass

air exerts pressure

air has mass

exploring air

explaining this experiment

Step 1- explain this experiment

Step 2- procedure

Step 3- procedure

Step 4- procedure

This experiment proves

why did we add water to the soda can?

why did we burn the can over the water?

label parts

Triple beam balance

mass of empty balloon

mass of air-filled balloon

empty balloon

air-filled balloon

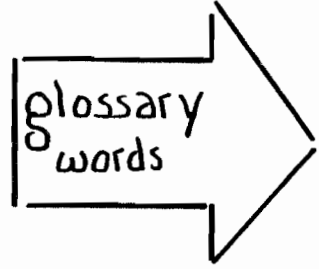
How does the mass of A and B differ?

What does this prove?

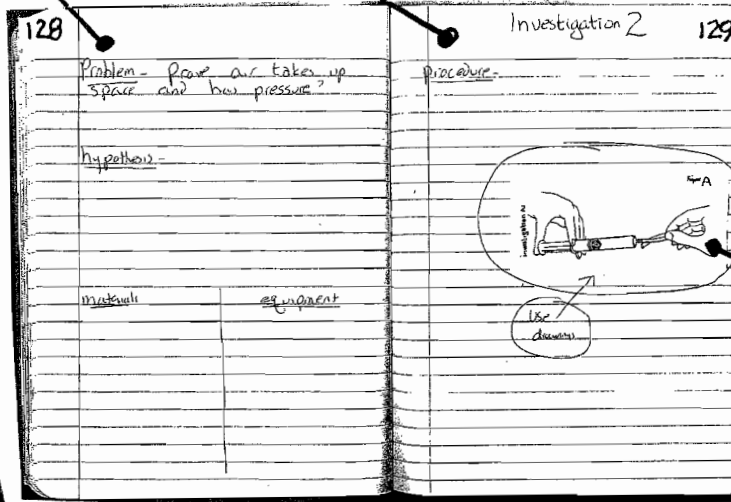
conclusion

results

127



This experiment is completely hand written



we will give you some drawings if you need them

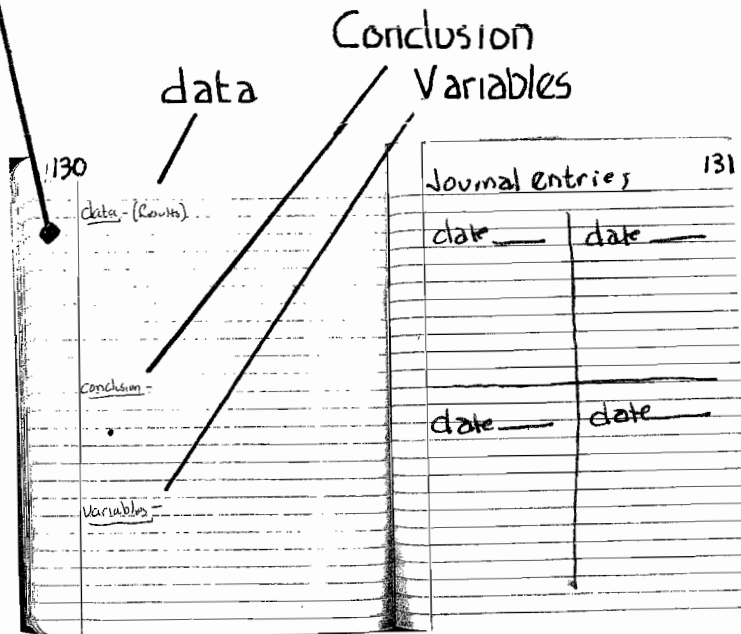
glossary words

atmosphere  
troposphere  
air pressure  
mass

cross section

oxygen  
hydrogen  
nitrogen

carbon dioxide  
displacement



pie chart  
meteorologist