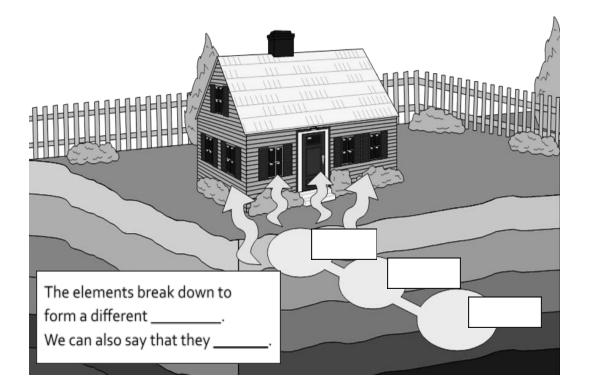
_	

Student name _____ Date____

PART 1: RADON IN YOUR LUNGS

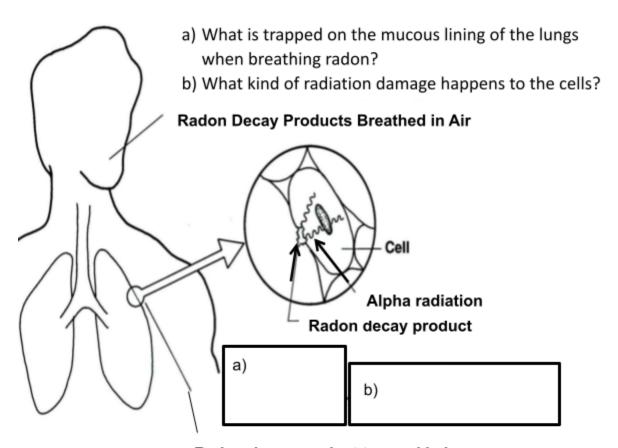
- 1) What are 8 properties of radon?
 - a) _____
 - b) _____
 - c) _____
 - d)
 - e)
 - f) _____
 - g) _____
 - h) _____
- 2) a) Label the picture below to show where radon comes from.
 - b) Complete the sentence in the picture to explain what happens to each element.



Student name	Date	
ACTIVITY 1: "STATIC CLING" DEMONSTRATION		
1) The clear tape represents		
2) The paper hole punch pieces represent		2.5
·		
How does the static cling in this		-
demonstration simulate the attraction of		
radon decay products and dust particles?		

Student name	Date
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1) Label the diagram below to identify how exposure to radon affects health.

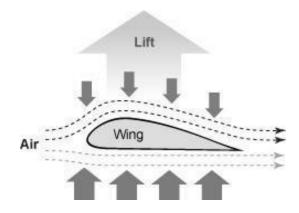


Radon decay product trapped in lungs

Student name Date

PART 2: RADON IN THE HOME & BERNOULLI'S PRINCIPLE

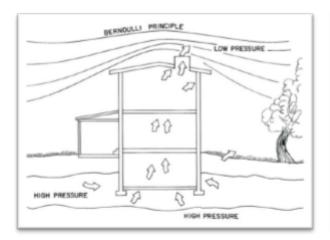
- 2) Label the diagram to the right to indicate
 - a) Low pressure
 - b) High pressure
 - c) Fast-moving air
 - d) Slow-moving air

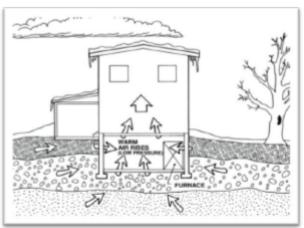


- 3) Complete the sentences to accurately apply Bernoulli's Principle.
 - a) When airflow speed is slower, there is _____ air pressure.
 - b) When airflow speed is faster, there is ______ air pressure.
 - c) When fast moving air moves across a surface, it creates a _____ pressure area which will cause _____.
 - d) Radon moves from a _____ pressure area to a _____ pressure area.
- 4) Name 3 weather factors that will force more radon into a home:
 - a)
 - b)
 - c) _____

Student name _____ Date____

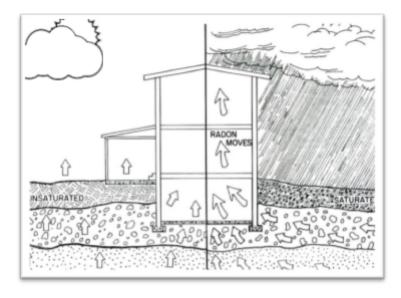
- 5) Name 3 examples of building designs or activities within a building that will force more radon into a home:
 - a) _____
 - b) _____
 - c) _____
- 6) Below are two diagrams showing a home exposed to different weather factors. In your own words, explain how both situations can have similar outcomes for radon entry.





Student name _____ Date____

7) Below is a diagram showing a home exposed to different weather factors. In your own words, explain how the situations can have different outcomes for radon entry.



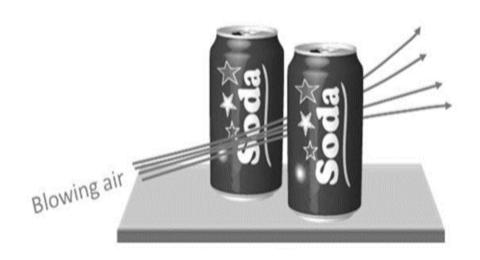
Student name	Date

ACTIVITY: "CHEERS OR NO CHEERS?"

Procedures:

Place 2 soda cans approximately 0.5 inch apart

- a) Predict what will happen if you blow between the two cans
- b) Record your prediction
- c) Try blowing between the cans
- d) Record observations and inferences



PREDICTION	OBSERVATIONS	INFERENCES

Student name	Date

PART 3A: RADON TESTING

AT-HOME ACTIVITY: "THE ONLY WAY TO KNOW"

"Performing your Test"

Procedures: Starting on a Monday evening

- 1) Record the serial number of the test kit on the table below. (page 8)
- 2) Review the test instructions on preparing to test.
- 3) Place the Radon Sampler in a central room on the lowest level of the building suitable for occupancy, whether finished or unfinished.
- 4) Place the Sampler paper side up on a flat surface.
- 5) Place the Sampler 2-7 feet above the floor.
- 6) Place the Sampler at least 3 feet from exterior doors and windows and at least 1 foot away from walls.
- 7) Make sure the Sampler has at least 6 inches of space between it and any objects above or to the side of it.
- 8) The test begins immediately once opened, record your test start time.
- 9) Record your prediction for test result outcome and your reasoning.
- 10) Record observations of the location such as indoor/outdoor temperature, draft, movement of people, proximity to weather factors (warmer indoor temperature), building design factors (vents, chimneys) and activities within buildings (ovens, exhaust fans) relative to heating or cooling vents, types.
- 11) Ensure test kit is undisturbed until test end date (Thursday evening).
- 12) Keep instructions from test kit for end test directions.

HOMETEST				
Test Kit Serial #	Prediction (Test results Will be above, at or below 4pCi/L action level, and why)	Environmental Observations (external & internal variables over duration of test)	Actual Test Results (pCi/L)	Inferences (Variables that may impact reliability of test)

5th Grade Science Radon _ Student Booklet Date Student name PART 3B: RADON TESTING CONTINUED (4 DAYS LATER) **Stopping the Test" Procedures**: (Ending Thursday evening) 1) Refer to original test kit instructions and carefully review the Successful Radon Test Checklist. 2) Update observations in table (see table on page 8) during test duration such as indoor/outdoor temperature, draft, movement of people, proximity to weather factors (warmer indoor temperature), building design factors (vents, chimneys) and activities within buildings (ovens, exhaust fans) relative to heating or cooling vents, types. 3) Return completely labeled and sealed test kit to your teacher on Friday's class or a designated drop-off location on Friday. PART 3C: RADON TESTING CONTINUED (UPON RECEIPT OF TEST RESULTS) Procedures: (See table on page 8) 1) Record test results. 2) Compare results to your prediction. 3) Review observations and record your inferences in the table whether there may be any variables that would impact the reliability of the test results. **PART 4: RADON POSTER CONTEST** The radon poster contest takes place every fall. Identify the focus of your topic: ☐ What is radon? ☐ Where does radon come from? ☐ How does radon get into our homes? ☐ Radon can cause lung cancer ☐ Test your home for radon Identify the medium will you use: ☐ Pencil, crayon or markers ☐ Paint (watercolor, tempera, or acrylic)

☐ Collage

Student name	Date
☐ Photographs	
☐ Computer graphic	
☐ Brainstorm : What messaging a	nd visual representation will be effective in making people
stop, view/read and REMEMBEI	R something important about radon?

