Environmental Measurement Worksheet

Student Name:	Date:				
•	ou now have basic procedures for we will collect some simple and understand each instrument's use. Use the list below and				
SECTION 1					
<u>Combustion Gas Detector:</u>					
Using a Combustion Gas detector, check the follo	owing systems if available:				
1. Monitor along the main gas line in the home as	s it enters from outside and comes to any appliance.				
Did you detect any gas? Yes No If so	, where on the gas line:				
2. Monitor along the gas line that leads to any ga	s appliance that is available. Appliance:				
Did you detect any gas? Yes No If so	, where on the gas line:				
!!! If no gas is detected, inform class that it is	now safe to perform combustion appliance testing !!!				
Using the Dragon Puffer Vapor Generator, check Hot Water Natural Ventilation: Turn on hot wate exhaust airflow at 45 seconds and again at 60 se	er. When the hot water heater comes on, check the				
Exhaust Vent: Flow Direct. @ 45 seconds:	, Exhaust Vent: Flow Direct. @ 60 seconds:				
<u>Carbon Monoxide:</u> Using a portable CO detector,	check the following systems if available:				
Stove Turn on all stove burners, and oven to 325 °F, if p Wait 15 seconds, hold detector (firmly) 24-36" a	possible above stove burners and collect reading, CO:ppm				
Wait 45 seconds, hold detector (firmly) 24-36" a	above stove burners and collect reading, CO:ppm				
Turn off all burners, but leave oven on-					
Wait 30 seconds, open oven door ~2 inches and	collect reading above 2 in. opening, CO:ppm				
Gas Hot Water Heater with Natural Ventilation					
Turn on hot water, Wait 45 sec., place CO detector \sim 2 – 4" from ope	ning in draft hood & collect reading, CO:ppm				
Wait 60 sec., place CO detector \sim 2 – 4" from ope	ning in draft hood & collect reading, CO:ppm				
Gas Furnace with Natural Ventilation					
Turn on furnace, Wait 45 seconds, place CO detector \sim 2 – 4" from	opening in draft hood & collect reading, CO:ppm				
Wait 60 seconds, place CO detector \sim 2 – 4" from	opening in draft hood & collect reading, CO:ppm				
	den CO source: In the basement or kitchen of the home have er while all others are out of the room. When told, return to the				

room and try to determine where the container was opened by measuring the CO starting anywhere in the room.

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SECTION 2							
Portable Psychrometer: In the Kitchen, measure the following	ng:						
Room Temp:(°F) Relative	Humidity ((RH):	% (Calc. Te	mp. Dew	Point:	(°F)
Surface Temp., interior wall:(°F), Surface Temp., Exterior wall:(°F)							
Notes and Comments:							
Water Temperature: WAIT! UNTIL	YOU ARE I	NFORMED I	T IS SA	FE TO	TURN ON	THE HO	T WATER
Turn on hot water. Wait 30 seconds	s after it sta	rts to becon	ne hot, t	then me	easure w	ith IR the	rmometer
Kitchen Faucet Hot Water Temp	(°F), Bathroon	n Fauce	t Hot W	later Ten	np	(°F)
Moisture Meter: In the kitchen, measure the moisture	re content o	of the inside	of the s	ink cab	inet		
Location: 1	Moisture	Readings:					
Location: 2	Moisture	Readings:					
Location: 3	Moisture	Readings: _				_	
If you observe a moisture stain any readings from the bathroom walls r				eading	below. If	none pres	sent, collect
Location: 4	Moisture	Readings:					
Location: 5							
Location: 6	Moisture	Readings:					
<u>Dragon Puffer Vapor Generator:</u> Check the exhaust flow of the follow	ving (be sur	e to turn on	the far	n):			
Bath Exhaust Vent: Flow Direction:		Kitchen Ex	haust V	ent: Fl	ow Direc	tion:	
Room Air flow: Pick a bedroom, clo of this gap. What airflow direction of		_	gap, pı	uff vapo	or at the t	op, middl	e, and botton
Top of Door AirFlow Direct.:	_ Middle of	Door airflo	w:	Во	ttom of D	oor airflo	ow:
Turn fan switch for the furnace/AC	to the "on"	position, wa	ait for tl	he blow	er to cor	ne on. The	en, check:
Return vent AirFlow Direct.:	_ Room suj	pply vent air	flow: _		Re-check	door test	above:
Top of Door AirFlow Direct.:							
Instructor Verification of Skills Trai	ninσ·		Da	ıte.			