Team number				
Team Name				_
		Phoenix Invitation	onal	
ANSWER SHEET	:			
	St	ation I: Leavenin	g Agents	
	unknown 1	unknown 2	unknown 3	unknown 4
visual observation	variable	variable	variable	variable
test with water	bubbles	none	none	none
test with acid	bubbles	none	none	bubbles a lot
test with iodine	positive	negative	negative	negative
Leavening Agent Identity	baking powder	yeast	cream of tartar	baking soda
reasons for your identity answer	variable	variable	variable	variable
1. microorganism bread to "rise", etc		sugar converted to carb	oon dioxide, trapped o	carbon dioxide causes
water's boiling needed at high alti		altitudes, this is due to	low airt pressure, inc	reased cooking times are
3. variable				
		Station II: Visco	ometer	
1. Viscometer	initials			
2. Standard Curve	initials			

3. the resistance of a liquid to flow		
4.	variable	
5.	centipoise cP	
6. a.	UNKNOWN #1:milk	
	UNKNOWN #2:white sauce	
	DIFFERENCE:#2 is more scous	_
C.	flour added plus heated	

Station III: Food Labels

- 1. 8 Calories
- 2. 99 Calories
- 3. 164 Calories
- 4. 271 Calories
- 5. flour, vegetable oil, corn starch, sugar

6. a. variable	
b.unsaturated; variable description	
c. HEALTHIER EXAMPLE:variable	
LESS HEALTHY EXAMPLE:variable	
7. Unknown #1:orange	
Unknown #2:legumes (bean)	
Unknown #3:salami	
Unknown #4:cracker	
Unknown #5:cheese	
Station IV: Recipes and Density	
1. D = M/V	
2. a. <u>Sloppy Joe</u> <u>Meatloaf</u>	
variable recipes	

Station V: Chemical Test #1

	Reagent #1
unknown #1	flour and water negative result
unknown #2	gelatin and water negative result
unknown #3	molasses and water positive result
unknown #4	flour, molasses, and water positive result
unknown #5	water

- 2. blue to orange/green with the addition of heat
- 3. simple sugars are found in # 3 and #4

STATION VI: MIXTURES AND SOLUTIONS

1.	emulsion_	

sepa	rates
b.	variable
_	
to k	keep items in solution mixed
h	emulsifier
	egg whites; lethicin
	a. miracle whip, mayo, milk, etc
	pids
'	
	STATION VII: BREADS
flat ve	ersus raised bread
leave	ning agent
a. s	ample A ingredient: (pita bread) water
	EXPLAIN: variable

b. sample B ingredient:	white bread (yeast)
EXPLAIN: _variable	

STATION VIII: CHEMICAL REACTIONS

enzymatic browning
 oxidation
 polyphenol oxidase
 an acid (lemon juice) was added
 vitamin C

one is browning and one looks fresh

1.

7. antioxidant

Station IX: Chemical Test #2

	Reagent #2
unknown #1	flour and water negative
unknown #2	gelatin and water positive
unknown #3	molasses and water negative
unknown #4	flour, molasses, and water negative
unknown #5	water negative

- 1. biuret
- 2. blue to violet is a positve test
- 3. only #2 has a protein source

Station X: Chemical Test #3

Reagent #3

unknown #1	flour and water positive
unknown #2	gelatin and water negative
unknown #3	molasses and water negative
unknown #4	flour, molasses, and water positive
unknown #5	water negative

- 1. iodine
- 2. brown to purple/black
- 3. #1 and #4 have starch