Name		
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Elements of a Great Thanksgiving for Chemistry!

Introduction: There are currently 25 elements identified by the FDA as **"essential"** for good health. These elements, classified as "major," "lesser," and "trace," are listed in the table below.

MAJOR	LESSER	TRACE (Essential to important functions such as forming bones, teeth & red blood cells)	
(Make up 99% of your body mass)	(Build body tissues and maintain cell processes)		
H – Hydrogen	Fe – Iron	V - Vanadium	Sn – Tin
O – Oxygen	K – Potassium	Cr – Chromium	Si – Silicon
C – Carbon	Zn – Zinc	Mo- Molybdenum	Se – Selenium
N – Nitrogen	Na – Sodium	Mn – Manganese	F – Fluorine
P – Phosphorus	S – Sulfur	Co – Cobalt	I – Iodine
Ca – Calcium	Cl – Chlorine	Cu – Copper	
	Mg – Magnesium	B - Boron	

INSTRUCTIONS: Around the room several tables are set-up containing items that represent different phases of your Thanksgiving celebrations.

- 1. Visit the table for each phase of the celebration (except dessert!). Begin at any phase.
- 2. Read the nutrients and / or ingredients listed on the labels of items on each table. <u>Identify</u> 3 different elements listed on the labels of 3 different items. (Find 12 different elements!)
- **3. Record** item name, element identified, Group Name or # to which that element belongs (1A-8A or transition metal). Classify the element as a major, lesser, or trace nutrient in the Data Collection Tables below.

NOTE: Elements may be combined in chemical compounds. For example, the ingredient "calcium chloride" contains both Ca and Cl. The ingredient "sodium phosphate" contains Na, P, and O. The elements C, H, and O are contained in most acids, fats, carbohydrates, and proteins.

Phase 1: APPETIZERS & SNACKS

Item Name	Element Name (ingredient/nutrient)	Group # or Name	Major, Lesser, Trace

	Name		
ement Trivia: Iden	ntify one transition metal in	any can of nuts.	
		-	
	Element Name		Thurst account Thousand
Item Name	Element Name (ingredient/nutrient)	Group # or Name	Major, Lesser, Trace
	(Iligreulent/nutricity)		
nase 3: MAIN COU Item Name	Element Name	Group # or Name	Major, Lesser, Trace
	(ingredient/nutrient)		
			· ·
	te the correct formula for th	•	
	te the correct formula for the amilies used in instant potat	•	
		•	
		•	
Carbon and Oxygen fa	amilies used in instant potat	to flakes or gravy powd	
arbon and Oxygen fa		to flakes or gravy powd	
Carbon and Oxygen fa	amilies used in instant potat	to flakes or gravy powd MUCH!	er.
arbon and Oxygen fa	emilies used in instant potate P & UH-OH, I ATE TOO N Element Name	to flakes or gravy powd MUCH!	er.

	Name			
Element Trivia: Write correct formulas for the Halogen compounds that help disinfect toilet bowls and whiten your laundry?				
Toilet		Laundry		
Element Trivia: Wha	t Nitrogen family member	in "Pepto" settles your s	stomach?	