

I Can Statements: Matter & Change

General Expectations

Score	I Can...
0	do not bring expected materials
1	bring only a pen and/or pencil
2	bring pen/pencil & notebook
3	bring writing utensil, notebook & book
4	bring utensil, notebook, book, SSN & calculator
5	bring all supplies, SSN is updated & organized

1. I Can List & Differentiate Properties of Matter

Score	I Can...
0	show no evidence of meeting target
1	attempt to list some physical & chemical properties
2	classify some properties as physical or chemical
3	classify some properties & some changes as physical or chemical
3.5	classify any property & change as physical or chemical
4	classify any physical or chemical property as extensive or intensive
5	defend your reasoning for picking any classification as physical vs chemical, or intensive vs extensive

2. I Can Differentiate Between Pure Substances & Mixtures

Score	I Can...
0	show no evidence of meeting target
1	attempt to list some heterogeneous & homogeneous substances
2	define homogeneous & heterogeneous
3	classify substances as heterogeneous or homogeneous
4	classify a homogeneous substance as either a mixture or pure substance
5	explain how a method of separation would work to separate components of a mixture

3. I Can Differentiate Between Elements & Compounds

Score	I Can...
0	show no evidence of meeting target
1	attempt to explain the difference between an element and a compound
2	define element & compound
3	differentiate between an element & compound from a list of given substances
4	differentiate between an element & a compound from a

	list of chemical formulas
5	explain why a compound has different physical & chemical properties than the elements it is composed of

4. I Can Identify a Chemical Reaction

Score	I Can...
0	show no evidence of meeting target
1	attempt to explain the difference a chemical reaction and a physical change
2	define chemical reaction
3	define chemical reaction & list 4 clues that a chemical reaction has taken place
4	define reaction, list clues and state the Law of Conservation of Mass
4.5	define reaction, list clues, state Law of Cons. of Mass, & identify the products & reactants of a reaction
5	Apply the Law of Conservation to calculate the mass(es) of products or reactants

Matter & Change Vocabulary

2.1 Properties of Matter

Chemical Change	Chemical Property	Extensive Property
Gas	Intensive Property	Liquid
Mass	Phase	Physical Change
Physical Property	Solid	Vapor
Volume		

2.2 Mixtures

Distillation	Filtration	Heterogeneous
Homogeneous	Mixture	Solution
Substance		

2.3 Elements & Compounds

Chemical Symbol	Compound	Element
Chemical Name		

2.4 Chemical Reactions

Chemical Reaction	Law of Conservation of Mass	Precipitate
Product	Reactant	