

## FOSS Chemical Interactions Course

### Vocabulary/Glossary Terms

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#### *Investigations Guide Vocabulary*

##### **Investigation 1: Substances**

chemical formula  
chemical name  
chemical reaction  
common name  
matter  
substance

##### **Investigation 2: Elements**

element  
periodic table of the elements  
symbol

##### **Investigation 3: Particles**

compress  
compression  
expand  
expansion  
gas  
liquid  
particle  
solid

##### **Investigation 4: Kinetic Energy**

contract  
contraction  
kinetic energy  
temperature  
thermometer

##### **Investigation 5: Energy Transfer**

calorie  
conduction  
conservation of energy  
cooling  
energy transfer  
equilibrium  
heating

##### **Investigation 6: Thermos Engineering**

constraint  
criterion  
engineering problem  
insulation

##### **Investigation 7: Solutions**

dissolve  
melt  
mixture  
solubility  
solute  
solution  
solvent

##### **Investigation 8: Phase Change**

condensation  
deposition  
evaporation  
freeze  
freezing point  
melting point  
phase change  
state of matter  
sublimation

##### **Investigation 9: Reaction**

atom  
bond  
burning  
compound  
conservation of matter  
crystal  
ionic compound  
molecule  
precipitate  
product  
reactant

##### **Investigation 10: Limiting Factors**

concentration  
limiting factor

## ***Science Resources Vocabulary***

### **Investigation 2: Elements**

atmosphere  
carbohydrate  
carbon dioxide  
chemical property  
core  
crust  
dissolve  
element  
fundamental  
gas  
lipid  
liquid  
mantle  
mass  
matter  
metal  
nitrogen  
noble gas  
particle  
periodic table of the elements  
phase  
physical property  
potash  
predict  
protein  
radiation  
radioactivity  
solution  
substance

### **Investigation 3: Particles**

bond  
chemical formula  
compressed  
force  
gaseous  
solid  
volume

### **Investigation 4: Kinetic Energy**

contraction  
density  
engineer  
expansion  
kinetic energy  
mixture  
room temperature  
vibrating  
water vapor

### **Investigation 5: Energy Transfer**

conduction  
conserved  
energy transfer  
equilibrium

### **Investigation 6: Thermos Engineering**

constraint  
criterion  
insulation  
vacuum

### **Investigation 7: Solutions**

bioaccumulation  
blood plasma  
climate change  
concentrated  
concentration  
dilute  
extinct  
herbicide  
insoluble  
melt  
ratio  
soluble  
solute  
solvent  
transparent

### **Investigation 8: Phase Change**

calorie  
condensation  
deposit  
dry ice  
evaporation  
freeze  
heat of fusion  
lava  
sublimation

### **Investigation 9: Reaction**

alchemy  
atom  
chemical equation

chemical reaction  
combustion  
compound  
crude oil  
exothermic reaction  
hydrocarbon  
molecule  
octane  
organic compound  
oxidizer  
petroleum  
precipitate  
product  
pyrotechnics  
reactant  
synthetic

**Investigation 10: Limiting Factors**

atomic number  
cyclotron  
electron  
nucleus  
proton  
scanning tunneling microscope  
well-ordered array