

CHAPTER 2 NOTES

CHAPTER 2-1 (P. 55 - 60)

What is energy?

What is work?

What are the three categories of energy? Describe each type of energy and give examples.

a.

b.

c.

What is the common unit of energy?

Describe the difference between a calorie and a Calorie.

What is the SI unit for energy?

1 cal = _____ Joules

State the law of conservation of energy.

What type of energy do we rely upon and what form do they come in?

If energy is conserved why do we say we are “running out of energy”?

CHAPTER 2-2 (P. 61 – 64)

What is the SI scale used to measure temperature?

What is the zero point on the Kelvin scale called and what does it mean?

What equation would you use to convert between K and °C?

To convert between °C and °F use the following equation:

CHAPTER 2-3 (p. 65 – 73)

What is matter?

Describe the 4 states of matter, including an example of each state.

a.

b.

c.

d.

What is the difference between a physical and a chemical change? Provide examples for each.

State the conservation of matter.

CHAPTER 2-4 (p. 74 – 76)

What is an element?

How are element symbols written?

What is the difference between an element and a compound?

What type of technique is used to distinguish between an element and a compound?

How would you describe a pure substance?

CHAPTER 2-5 (p. 77 – 79)

What is a mixture?

What are the two types of mixtures? Provide examples.

Describe the process of separating a heterogeneous mixture.

Describe the process of separating a homogeneous mixture.