# **Chapter 2 Review Guide**

1. Know your vocabulary words especially the ones NOT on the vocabulary quiz.

## **BONDING**

Explain how a covalent bond works Shares C

i. What is an example? H20

Explain how an ionic bond works e are taken or

i. What is an example? Saut

Draw a water bond

i. Explain the charges 0449en 15

evalertii. What type of bond does this create? Polar

iii. Explain how it is polar has a f ?

## WATER PROPERTIES

i. What does it create? breaks H-bonds surf other ii. How does it do this? Capillar action

iii. Examples Water going up stems

- What is Cohesion? H20 13 attracted to itself
  i. What does it create? Surface tension

  - ii. How does it do this? Water bonds tight
  - iii. Examples things can float
  - Explain a solution, solute and solvent.

Explain how polarity affects a compound has a to

#### **ACID** and BASES

What is the range of the pH scale? 6-14

Identify 3 facts about an acid. wrns, Sour, 0-6.9

Identify 3 facts about a base. Shippery bitter, 7.1-14

Draw and label the parts of the pH scale.

What is a buffer? Give an example of how this works in our bodies. Tums

- brings pH range back to normal Explain the difference between an organic compound hac & from living things and an inorganic compound.

does not have Cinit & does not come from CARBOHYDRATES

Name 3 foods. pasta, rice, potato

What is the general purpose? quick energy

- What are the basic building blocks? mono sacchardes
- What elements do they contain? CHO

What does the basic building blocks structure look like?

What are some of the polysaccharides? Starch, cellulose

#### **LIPIDS**

Name 3 foods. butter, oil, lipid

What is the general purpose of them? Stored energy What are the basic building blocks? Farty acids, glyceral

What elements do they contain? CHO

What does the basic structure of a lipid look like?

unsat Compare and contrast a saturated and White

Yellow unsaturated fat using 4 facts for each. tromplants trom animal

Dad

0000

Crocked/dovide

**PROTEINS** 

Straight Name 3 foods.egg tish

What are the 4 general purposes of them? Work What are the basic building blocks?

amino acids

d. What elements do they contain? Drotein

# NUCLEIC ACID

What is the general purpose of DNA? RNA?

What makes up the basic building block? 500,64, base What does the structure of the basic building Proppet

block look like? 0-0-1

What elements do they contain? CHOUP

# 10. ENZYMES

What is the purpose of it? Speed up reactions a.

What organic molecule is it? Protein b.

What is another name for it? Catalyst

List the steps of how an enzyme functions What 2 things affects it? pH 1 temp e.

f. What is a substrate? What it acts on

What is an active site? binding site by

h. Draw a picture of a substrate, active site, and

Country active enzyme.

## 11. PERIODIC TABLE

What is the atomic number? # of pt or e -

What is atomic mass/weight? pt + no

Name the 3 particles in an atom. pt, no e

Where are each of these particles found in e = = energy levels an atom? pt (no = nucleus

How do you found the amount of protons in an element? Otomic #

How do you found the amount of electrons in an element? Otomic #

How do you found the amount of neutrons in an element? Atomic mass - p+

How would you find the following for Hydrogen, Chlorine, Sulfur, and Sodium

i. Symbol

ii. Proton number 1,17,16,11

Electron number

Neutron number

Atomic number

vi. Atomic mass

