**3rd Quarterly Exam**—Will include all topics since the start of the year, including state labs. Most questions will be application type, not simple knowledge questions.

**Vocabulary:**

Organic molecules

nucleus

mitochondria

ribosomes

chloroplast

vacuole

Cell membrane

internal development fertilization

Asexual/sexual reproduction

photosynthesis

enzyme/ biological catalyst

cell respiration

ATP

Feedback mechanisms

mitosis

meiosis

cell differentiation

osmosis

diffusion

guard cells

antigen

antibody pathogen

distilled water/salt water gene expression

Homeostasis

estrogen

testosterone

raw materials

Topics:

1. Function of cell parts and organelles.
2. Organic, inorganic molecules and their chemical bonds
3. Asexual vs. Sexual Reproduction
4. Fetal Development and structures that support the fetus
5. Examples of feedback mechanisms and homeostasis
6. Endocrine and nervous systems and the role of receptors
7. Stomata and guard cells
8. Growth and Development: Cell division, Mitosis, Stem Cells, Differentiation
9. Lab activities: microscope, making slides
10. Photosynthesis and Respiration: Products and Reactants, Organelles
11. Organelles ----🡪 Organ Systems
12. Comparisons of single-celled and multi-celled organisms
13. Diffusion and Active Transport
14. Osmosis in plant and animal cells
15. Scientific method and valid experiments, interpreting data

**Review Questions from the Green Science Workbook!**

**Cells and Cell Processes/Diffusion**

Diagrams and information on page 124-126

Page 129 Set 1 #1,3,5,6,14,24,30,32, 36

Page 144 Set #38,39,48

**Biochemistry**

Pages 95 Diagrams 1-4

Set 1 #20,33ab, 39a-d

**Human Body/Feedback/Homeostasis**

Diagrams and information on pages 158-160

Set 1Page 165 #7, #8, 14, 15, 32abc,34,35,37,40

Set 2 Page 175 # 2,8,13,26

**Labs**

Page 97 diagrams 1-4

1. Page 202 Set 1 # 14,17,29