Sketches should be completed using a pencil. Coloring sketches is not necessary and will not improve the grade.

I. Animal Cell Sketch

Sketch a typical animal cell (see page 67). Label all parts using leader lines.

II. Organelle Function Chart

On the FACING PAGE, write the name of each organelle in alphabetical order beginning with centrioles and ending with transport vesicles. Be sure to number the organelles.

Write the function; do not write a description of the structure.

Each function MUST begin with a verb.

Examples:

 Nucleus: controls the cell’s activities.

 Secretory vesicles: transports material to the plasma membrane.

III. Sketches of Specialized Cells

On the page after the Organelle Function Chart,

 (1) Sketch each cell from the list below.

 Sketch 2 cells per page; one on top half and one on the bottom half.

 (2) Label each cell with the name that is given below.

 (3) In parenthesis underneath the name, write the common name of each cell.

 Example:

 Adipocyte

 “fat cell”

 (4) Label the parts of the cell sketch.

 Example:

 Spermatocyte should have flagella, acrosome, mitochondria, etc. labeled

 (5) Underneath (or adjacent to) the sketch, list (in layman’s terms) the functions of the cell

Specialized Cells

 Adipocyte Spermatocyte Neurocyte

 Oocyte Osteocyte Lymphocyte

 Erythrocyte Monocyte

 Chondrocyte Myocyte