Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Come to the materials table and get a viewer, animal mitosis slide and plant mitosis slide.
2. Draw what you see for each corresponding slide and label all parts in each slide. (you may not need all squares depending on the slide you receive. You also may not be able to see all parts in all slides).
   1. Animal Labels - prophase,anaphase, cytokinesis, telophase, Interphase, metaphase, nucleus, chromatid, chromosome, spindle fiber, centriole, cell membrane, cytoplasm, parent cell, daughter cell, centromere
   2. Plant Labels - prophase,anaphase, cytokinesis, telophase, Interphase, metaphase, nucleus, chromatid, chromosome, spindle fiber, centriole, cytoplasm, parent cell, daughter cell, centromere, cell wall, forming plate
3. Answer the questions on the back of this sheet.

Animal Slides

Plant Slides:

Questions:

1. Why are cells important?
2. Why is it important for cells to reproduce?
3. Compare and contrast plant mitosis and animal mitosis (plant cells have something different than animals).
4. Compare and contrast eukaryotic cell division with prokaryotic cell division.
5. Where are the checkpoints and why are they important? What would happen without them? (there are 3 you will have to look them up!)