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Growth and Development

5.1 Cell parts, structure, and function

Instructions: Identification work sheet.

a) DAY 1 Looking through a microscope and drawing the

- i. Nucleus
 - 1. Nucleolus
 - 2. Nuclear membrane
- ii. Ribosomes
- iii. Plasma membrane
- iv. Rough endoplasmic reticulum
- v. Smooth endoplasmic reticulum
- vi. Mitochondrion
- vii. Lysosome
- viii. Centrosome
- ix. Cell membrane
- x. Cytoplasm
- xi. Vacuole
- xii. Golgi body

b) DAY 2 Class activity

- i. Divide class into groups and assign a cell part or part to each group



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- ii. Have group research their given structure and build a 3-D model of it to present to the class. Except for the Cell membrane.
 - iii. Teacher makes a cell membrane out of rope or hoola hoops
- c) DAY 3 Class presentations and GIANT Model construction
- i. After each group presents their individual models they then must place inside of teacher's cell membrane model to form a giant animal cell at the end of the lesson.

Materials: Day 1- microscopes and slides with animal cells visible

Biology/ animal science book to define terms.

Day 2, 3- **Building materials**- Styrofoam balls, colored pipe cleaners, tape, glue, rope/ hoola hoop, play dough, straws, packaging peanuts, and straight pins.

Presentation Materials - poster board, markers to label structures, and glue