**Cell Division Role-Play (Chapter 6)**

Class Textbook*: Life Science,* Second Edition, Bob Jones University Press, 1998

Actors Needed:

2 girls—first chromosomes 2 girls—added chromosomes

2 boys—first and added spindles 4, then 6—nuclear membranes

remaining students make up cell membrane

1. All the students stand around the edge of the room. Everyone says WE ARE THE CELL MEMBRANE.
2. Two girls stand in the middle of the room. Everyone points to them and says CHROMOSOMES MADE OF DNA.
3. Four students stand one on each side of the chromosomes, arms outstretched. Everyone points to them and says NUCLEAR MEMBRANE.
4. Another student stands off to one side. Everyone points to him and says SPINDLE, then waves arms around the whole group and says THIS IS A MOTHER CELL.
5. Two girls join the two chromosomes, back to back. Everyone points to them and says DNA REPLICATION HAS MADE SISTER CHROMATIDS, then motions around the entire group and says THIS IS INTERPHASE.
6. Another student steps out on the opposite side of the nucleus from the spindle. Everyone points to him and says NEW SPINDLE.
7. The members of the nuclear membrane back up to the wall. Everyone says THIS IS PROPHASE.
8. The two pairs of sister chromatids line up in the middle facing the two spindles, arms outstretched toward them. Everyone says THIS IS METAPHASE.
9. The sister chromatids separate and head toward the spindle in front of them. When they’re halfway there, everyone says THIS IS ANAPHASE.
10. When the chromatids reach the spindle, everyone says THIS IS TELOPHASE.
11. The spindle backs away and three students surround each group of chromosomes. Everyone says NUCLEAR MEMBRANES. The remaining students form a line separating the two nuclei. Everyone says THESE ARE DAUGHTER CELLS.