

Mitosis – Edible Chromosomes

Materials:

Gummy worms
Marshmallows
Toothpicks

Mitosis place mat
Lab sheet
Colored pencils

Procedure:

1. Pass out lab sheets. Students should build their own chromosome models but work in pairs to model the phases of mitosis.
2. Distribute materials:
 - Pass out 1 laminated place mat per student pair
 - Pass out 4 gummy worms to each student
 - Pass out two toothpicks per student
 - Pass out two marshmallows per student
3. Students use their materials to assemble their chromosomes into pairs.
4. Students sketch and color their 2 chromosome pairs on lab sheets. Students label centromeres.
5. Students use the table place mat to move their chromosomes through the phases of mitosis.
6. Students illustrate the 4 phases of mitosis on lab sheet.