

Cellular Replication and the Law of B and G Review

1. The Law of B and G states what 4 things about radiosensitivity?
 - a.
 - b.
 - c.
 - d.

2. What is mitosis?

3. Draw a representation of the phases/cycle of mitosis

4. Based on the Law of B and G:
 - a. Cells are most sensitive to radiation interactions are during which two phases? Why is this true?

 - b. Cells are least sensitive to radiation are which two phases? Why is this true?

 - c. Cytologists can determine chromosomal damages during which phase? Why is this important?

5. Describe why understanding this cellular replication process is important when considering radiation safety and protection of the patient in the clinical setting.