

**Online Activity Worksheet 9.4*****Cancer cells grow and divide out of control.***

*Examine the cycle of a cancer cell.*

**OBJECTIVE:** to observe what happens when the control system in the cell cycle malfunctions

The cell cycle is an orderly sequence of events that is directed by certain proteins within the cell. This control system regulates the cell processes at several “checkpoints.” In this activity, you will see what happens when the control system malfunctions, and cells grow and divide uncontrollably, causing a condition called cancer.

- Click the **start** button to observe how a cancerous cell cycles. Then click on one of the daughter cells to watch it divide.
- Click the **start** button to see how cancerous cells divide out of control, forming a tumor. Then click the **next** button to watch a video of cancerous skin cells.

Now answer the following question in the space provided.

1. Describe the difference between a dividing normal cell and a dividing cancer cell as they go through the cell cycle.

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