

Unit 3 Project

Cancer Awareness Infographic

You've been tasked with creating an infographic to inform others about mechanisms that cause cancer at the cellular level. Cancer touches the lives of young people as well as adults. Within your circle of friends and family, how has cancer impacted those you care about? You will create an infographic to highlight risk factors that have a significant impact on the body at a cellular level and inform others about the relationship of those risk factors with the choices individuals make.

You will create an infographic about a cancer type of your choice. Please note- this project requires the researching of statistical data. Your research must be accurate.

PREWORK – Using the data provided, investigate how oncologists discover cancerous cells by looking at mitotic cell counts.

1. The page provided contains the cell counts for a type of cancer. Choose ONE of the data sets to complete the following steps.
2. Using the cells in the dishes, count the number of cells found in each stage of mitosis.
 - a. **Count** the number of cells in each stage of the cell cycle. **Record your data** in the table below. Be sure to *Identify* your cell type.
 - b. **Calculate** the percentage of cells that are dividing (in mitosis) or at rest (in interphase). Remember, a percentage is a part divided by the total X 100.

Cell Type	Number of Cells in Each Phase of the Cell Cycle							
	Interphase	Prophase	Metaphase	Anaphase	Telophase	TOTAL No. of Cells	% Cells Dividing	% Cells at Rest
Normal Cell								
Cancerous Cell								

3. Using a current copy (from your teacher) of recent cancer rates, find the number of **new cases** and **deaths** in Texas and in the U.S. for your chosen cancer type. Add them to your research notes.

INFOGRAPHIC

Will be completed digitally. (ex. Piktochart, Canva or Easel.ly)

Your infographic should include the following:

- Language that YOU UNDERSTAND!!!
- Name of the cancer you researched
- Brief explanation of what cancer is (in general)
- Brief list of symptoms
- Brief explanation of what causes your specific cancer (include risk factors)
- Brief explanation of your specific cancer's demographics (How common is it? Is it more common in certain groups of people?)
- Brief explanation of treatments for your specific cancer
- PIE GRAPHS – Showing % cells dividing vs % cells at rest in normal (1) and cancerous (2) cells using your PREWORK data.
- BAR GRAPH – Showing New Cases and Death Rates for 2015 in the U.S. Include 2015 Texas data to show local impact.

Unit 3 Project

Cancer Awareness Infographic

- Minimum of 3 images (excluding your graphs) – *citations must be included* (excluding free images, i.e. clipart).
- Any data not provided by the teacher should also include a citation

Your final work may be displayed on campus, hanging in the hallways or classrooms. Make sure you create something that is worth sharing with your peers!

For example:

