


TERRY FOX LESSON PLAN

Sharing His Story With Your Students

Lesson: Graphing Terry's Success
Grade Level: Junior
Time: Approximately 100 minutes

Lesson Snapshot

Terry Fox has had a direct impact on cancer research as well as improved survival rates. In this lesson, students will analyze data from The Terry Fox Foundation and select an appropriate graph to show how Terry Fox has directly affected improvements in cancer research and survival.

Success Criteria

Students;

- will work with data
- will accurately select an appropriate graph to demonstrate data

Curriculum Expectations

Data Management and Probability

- Collect and organize discrete or continuous primary data and secondary data and display the data in charts, tables and graphs that have appropriate titles, labels, and scales using a variety of tools

Materials/Media

- BLM J-9: "Cancer Research: It's Working"
- BLMJ-10: "Data Management & Donations"
- BLMJ-11: "Graphing Terry's Success"
- Access to graphing software and/or graphing chart paper

Lesson Delivery

Setting the Stage

- Discuss cancer with the class. Explain as simply as possible what cancer is, and discuss how it has affected the class. ie, who knows someone who has had it etc.
- Discuss the changes in cancer. What could have changed? How do you think success rates have changed?
- Put statistics sheet up on Elmo, Smartboard etc and discuss the changes in cancer for both men and women since Terry was diagnosed.

Core Learning Activity

- Distribute print materials that include data discussed as a class. Hand out BLM J-8 as a guideline to help them with this activity.

Application of Information

- Using data presented in class, students will present their findings and information on a graph they deem to be the best choice.
- Remind students that their assignment guideline will remind them of the rules of graphing.
- Students will either create the graph using graphing chart paper and/or graphing software.

Assessment

Use rubric BLM J-8 to assess this assignment.

Extension Activity

Use publishing software to create a pamphlet for the Terry Fox Foundation to demonstrate data and statistics.

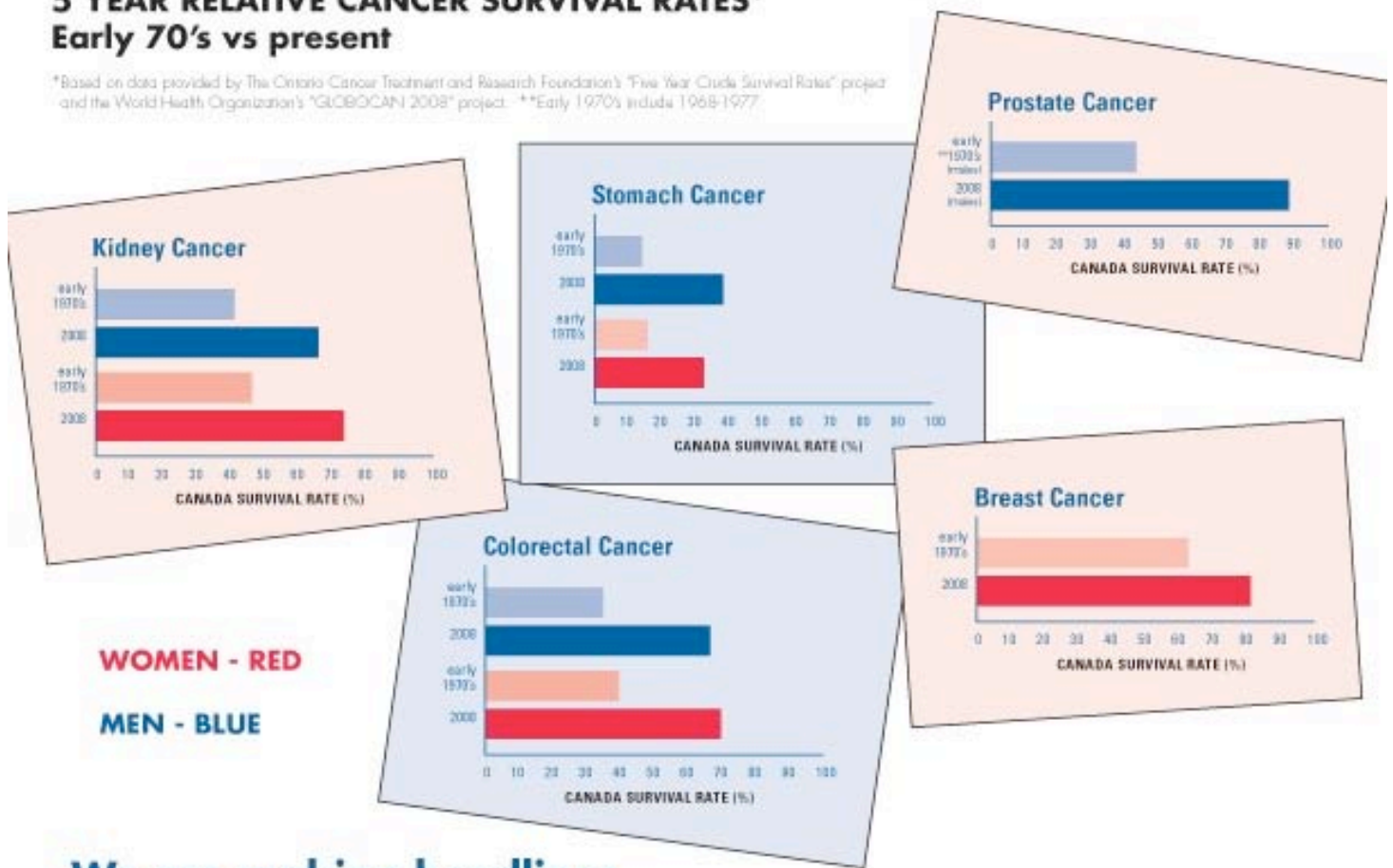
Cancer Research: It's Working

Progress in Cancer Survival Rates

New knowledge and technology in cancer research has contributed to reductions in the percentage of individuals who succumb to the disease. Research, along with a number of other factors (e.g. earlier detection and diagnosis, preventive measures, lifestyle and environmental changes) have led to improved survival rates for many kinds of cancers.

5 YEAR RELATIVE CANCER SURVIVAL RATES* Early 70's vs present

*Based on data provided by The Ontario Cancer Treatment and Research Foundation's "Five Year Crude Survival Rates" project and the World Health Organization's "GLOBOCAN 2008" project. **Early 1970's include 1968-1977.



We are making headlines

We are so proud of the accomplishments made by past and present Terry Fox researchers who work tirelessly in pursuit of Terry's dream of a world free of cancer. Every headline listed below is made possible only with your support!

"RESEARCHERS DISCOVER HOW CANCER CHEATS IMMUNE SYSTEM"

Dr Joseph Connors and Dr Randy Gascoyne

"REMOVAL OF CANCEROUS EYE REDUCES RISK OF DEATH AMONG CHILDREN"

Dr Brenda Gallie

"TORONTO SCIENTISTS UNCOVER CLUES TO ORIGINS OF LEUKEMIA"

Dr John Dick

"RESEARCH AND INNOVATION: PAYING IT FORWARD"

Dr Rajiv Chopra

"OTTAWA LAB CLOSING IN ON CANCER BREAKTHROUGH"

Dr John Bell

Please visit terryfox.org/Research/ for more information.

Data Management & Donations



Name: _____

Imagine you are canvassing for donations for the Terry Fox Foundation. You are putting together a presentation asking for donations.

Using the data discussed in class and/or information you have found on the internet, decide what information would best be shown to potential donors to best show the improvement in cancer statistics.

Select a graph that will best show your data. Remember to follow the rules of graphing;

- ~ use a ruler
- ~ label the X and Y axis
- ~ use a legend when applicable
- ~ use a very specific title



Graphing Terry's Success

	Level Four	Level Three	Level Two	Level One
Follows Graphing Rules	My graph follows all of the graphing rules: has X and Y labels, a clear legend, straight lines and a clear and specific title.	My graph follows most of these graphing rules: has X and Y labels, a clear legend, straight lines and a clear and specific title.	My graph follows some of these graphing rules: has X and Y labels, a clear legend, straight lines and a clear and specific title.	My graph follows few of these graphing rules: has X and Y labels, a clear legend, straight lines and a clear and specific title.
Accurate Data	The information on my graph is very accurate and precise and correctly demonstrates true facts about the Terry Fox Foundation.	The information on my graph is accurate and precise, and correctly demonstrates true facts about the Terry Fox Foundation.	The information in my graph is somewhat accurate and precise, and demonstrates some facts about the Terry Fox Foundation.	The information in my graph is not accurate and precise, and does not accurately demonstrate facts about the Terry Fox Foundation.
Neatness and Accuracy	My graph is done neatly, data is graphed accurately and I have added eye catching colour and detail.	My graph is done neatly, and my data is graphed accurately.	My graph is completed with some neatness and my data is mostly accurate.	My graph is completed messily, and my data is sometimes inaccurate.

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