

Leading causes of death in the South Bronx (Community District: Mott Haven & Melrose) & New York City

Mott Haven & Melrose			New York City	
Rank	Cause: Number of Deaths	Death Rate	Rank	Death Rate
1	Heart Disease: 683	201.8	1	202.6
2	Cancer: 559	154.8	2	156.7
3	Diabetes: 114	31.9	4	20.6
4	HIV: 111	26.4	10	8.4
5	Lower Respiratory Diseases: 105	30.0	5	19.8
6	Flu/Pneumonia: 100	29.3	3	27.4
6	Stroke: 100	29.8	6	18.8
8	Drug-related: 89	20.9	9	8.6
9	Homicide: 64	13.8	14	5.7
10	Accidents: 55	14.4	7	11.8
10	Viral Hepatitis: 55	14.0	17	4.3

Revised Learning Goals

1. **Discovery:** Students will be able to hypothesize about the top 3 causes of death in the Bronx and in New York City.

Bronx:

3 = Students generated 3 possible causes

2 = Students generated 2 possible causes

1 = Students generated 1 possible cause

0 = Students were unable to generate possible causes.

New York City

3 = Students generated 3 possible causes

2 = Students generated 2 possible causes

1 = Students generated 1 possible cause

0 = Students were unable to generate possible causes.

2. Knowledge & Conceptual Understanding: Students will be able to read a table containing the top 10 causes of death in the Bronx and in New York City and identify the top 3 causes of death in each. Students will compare their original answers with what the actual data are and discuss these differences in class.

Bronx:

3 = After reading the table students correctly identified the 3 leading causes of death

2 = After reading the table students correctly identified 2 leading causes of death

1 = After reading the table students correctly identified 1 leading cause of death

0 = After reading the table students correctly identified none of the top 3 leading causes of death

New York City

3 = After reading the table students correctly identified the 3 leading causes of death

2 = After reading the table students correctly identified 2 leading causes of death

1 = After reading the table students correctly identified 1 leading cause of death

0 = After reading the table students correctly identified none of the top 3 leading causes of death

3. **Thinking & Other Skills:** Students will transform the data from this table of top 10 causes of death to two graphs, one depicting the Bronx data and one depicting the New York City data.

To what extent did students:

A) Choose two correct graphs to represent some of the data from Bronx and New York City presented in the table

a) Accurately represented table data in graphs

All data accurate	Few errors	Some errors	Many errors
3	2	1	0

b) Graph appropriate to data chosen

All graphs appropriate	Some graphs appropriate	All graphs inappropriate
2	1	0

4. **Attitudes, values, and habits of mind:** Students will indicate increased confidence in their ability to perform QR tasks and an increased preference for numerical information (as measured by the subjective numeracy scale)

approximate time

exact time

13. How often do you express an opinion using numbers (e.g., on a scale of 1-10, I give it a 7)?

1
never

2

3

4

5

very often

6