

Norwood Public Schools

Course Overview

Data Skills 272 S

Description

Data Skills is a full year senior mathematics course taught at the standard level at Norwood High School. This course will provide an introduction to a wide range of data concepts. Some basic concepts learned previously will be reinforced and expanded upon, including *mean, median, mode, and range*. Focus will be placed heavily on calculations from data as well as interpretation and communication about data. The TI-83/84 calculator will be used during many portions of this course. Successful completion of Intro to Algebra 2 and teacher recommendation are the requirements to enroll in this class.

Learning Experiences:

Students are introduced to ways of analyzing data critically. Data sets will be constructed, presented, and examined through visual displays and numerical summaries. Students will reason and communicate ideas, make conjectures, analyze results, and draw conclusions. The TI-83/84 calculators will be used throughout the course to help with calculations and statistical procedures. A few term projects are constructed throughout the year to illustrate statistical concepts and engage student learning.

Content Outline:

<u>Topic</u>	<u>Name</u>	<u>Days</u>
1	Mean, Median, Mode, and Range	15
2	Frequency Tables, Dot Plots, and Distributions	15
3	Percents, Decimals, Fractions, and Ratios	10
4	Stem-and-Leaf Plots	15
5	Bar Graphs and Percent Change	15
6	Histograms	10
7	Pie Charts	15
MIDYEAR EXAM		
8	Venn Diagrams	15
9	Coordinates, Slope, and Slope-Intercept Form	15
10	Scatter Plots and Graphing Calculators	10
11	Line of Best Fit	10
12	Extremes, Range, and Quartiles and Graphing Calculators	10
13	Box and Whisker Plots and Graphing Calculators	10
14	Variables , Bias, and Sampling Methods	10
15	Simple Probability	5
16	Fundamental Counting Principle	5

FINAL EXAM

Resources Used:

Textbook: The Essentials of High School Math by Joseph R. Davis, 2009

ISBN: 978-0-615-26509-4

TI-83/84 calculator, various data sources