**Unit 2 - Modeling Distributions of Data**

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| Date | Topic | Classwork | Homrework Assignment class |
| Wednesday  1/16 | 2.1  Describing  Location in a  Distribution | Read 82-102 (Guided Reading)  keeper 2.1  [Keeper 2.1 - Describing Location in a Distribution](http://www.hopkins.k12.ky.us/webpages/vbrowning/files/tps4e_ch2_2.1.ppt)  WORKBOOK PG, 27,28,29 | Page 105  5,7,9,11,13,15  19,21,,23,31,33-38 |
| Thursday  1/17 | 2.2  Normal  Distributions | Quiz 2.1  [Keeper 2.2 Normal Distributions](https://cobbk12.blackboard.com/bbcswebdav/pid-1327254-dt-content-rid-6383977_2/xid-6383977_2) [Click for more options](https://cobbk12.blackboard.com/webapps/blackboard/content/listContentEditable.jsp?content_id=_782580_1&course_id=_17444_1#contextMenu)      Read page 110-119 (Guided Reading  WORKBOOK PG 31 (1-5 | Page 131  41-59 ODD |
| Friday  1/18 | 2.2  Normal  Distributions | [Keeper 2.2 Normal Distributions](https://cobbk12.blackboard.com/bbcswebdav/pid-1327254-dt-content-rid-6383977_2/xid-6383977_2) [Click for more options](https://cobbk12.blackboard.com/webapps/blackboard/content/listContentEditable.jsp?content_id=_782580_1&course_id=_17444_1#contextMenu)   Read pages 119-130 (Guided Reading)  WORKBOOK PG 32 | Page 132 (63,65,66,68,69-74) |
| Tuesday  1/22 | Review | Quiz 2.2  FRAPPY  MULT CHOICE (WB) | Page 136 (R.2.1-2.12 |
| Wednesday  1/23 | Chapter 2 Review | PRAACTICE TEST | Practice TEST p.138 (T2.1-2.13 |
| Thursday  1/24 | Chapter 2 TEST | Read pages 142-149  Chapter 3 |  |
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**STANDARDS**

**Exploring Data: describing patterns and departures from patterns**

A. Constructing and interpreting graphical displays of distributions of univariate data (dotplot, stemplot, histograms, cumulative frequencyplots

B. Summarizing distributions of univariate data

**1.**   Measuring position: quartiles, percentiles, standardized scores (z-scores)

**2.**   The effect of changing units on summary measures

**Anticipating patterns: exploring random phenomena using probability and simulation**

A. The Normal Distribution

**1.**       Properties of the normal distribution

**2.**       Using tables of the normal distribution

**3.**  The normal distribution as a model for measurements

**IMPORTANT DATES**

1/22 -Quiz

1/26 -  Test 2

**QUICK NOTES/ GUIDED READING**

[Chapter 2 - Describing Location in a Distribution Quick Notes](https://cobbk12.blackboard.com/bbcswebdav/pid-1327254-dt-content-rid-5609056_2/xid-5609056_2) [Click for more options](https://cobbk12.blackboard.com/webapps/blackboard/content/listContentEditable.jsp?content_id=_782580_1&course_id=_17444_1#contextMenu)

[Ch02 Reading Guide.pdf](https://cobbk12.blackboard.com/bbcswebdav/pid-1327254-dt-content-rid-6893694_2/xid-6893694_2) [Click for more options](https://cobbk12.blackboard.com/webapps/blackboard/content/listContentEditable.jsp?content_id=_782580_1&course_id=_17444_1#contextMenu)

**LESSONS**

**2.1 Describing Location in a Distribution**

Use percentiles to locate individual values within distributions of data.

Interpret a cumulative relative frequency graph.

Find the standardized value (*z-*score) of an observation. Interpret *z-*scores in context.

Describe the effect of adding, subtracting, multiplying by, or dividing by a constant on the shape, center, and spread of a distribution of data.

Approximately locate the median (equal-areas point) and the mean (balance point) on a density curve.

[Keeper 2.1 - Describing Location in a Distribution](http://www.hopkins.k12.ky.us/webpages/vbrowning/files/tps4e_ch2_2.1.ppt)

HW: 1, 5, 9, 11, 13, 15, 19, 21, 23, 31, 33-38

**2.2 - Normal Distributions**

Use the ***68–95–99.7 Rule***to estimate the percent of observations from a Normal Distribution that fall in an interval involving points one, two, or three standard deviations on either side of the mean.

Use the Standard Normal Distribution to calculate the proportion of values in a specified interval.

Use the Standard Normal Distribution to determine a *z-*score from a percentile.

Use ***Table A***to find the percentile of a value from any Normal Distribution and the value that corresponds to a given percentile.

Make an appropriate graph to determine if a distribution is bell-shaped.

Use the ***68-95-99.7 Rule***to assess the normality of a data set.

Interpret a Normal probability plot.

[Keeper 2.2 Normal Distributions](https://cobbk12.blackboard.com/bbcswebdav/pid-1327254-dt-content-rid-6383977_2/xid-6383977_2) [Click for more options](https://cobbk12.blackboard.com/webapps/blackboard/content/listContentEditable.jsp?content_id=_782580_1&course_id=_17444_1#contextMenu)

HW: 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 63, 65, 66, 68-74