

Carrizo Springs High School

Your Course 2019-2020 Scope and Sequence

| DATE | MATERIAL TO BE COVERED |
|-----------|--|
| AUGUST | |
| 26 | Introductions |
| 27 | Survey |
| 28 | Project – Stats Overview |
| 29 | The Language of Variables |
| 30 | Representing a Categorical Variable with Tables |
| SEPTEMBER | |
| 2 | <i>Labor Day – No School</i> |
| 3 | Representing a Categorical Variable with Graphs |
| 4 | Representing a Quantitative Variable with Graphs |
| 5 | Representing a Quantitative Variable with Graphs |
| 6 | Describing the Distribution of a Quantitative Variable |
| 9 | Describing the Distribution of a Quantitative Variable |
| 10 | Summary Statistics for a Quantitative Variable |
| 11 | Summary Statistics for a Quantitative Variable |
| 12 | Graphical Representations of Summary Statistics |
| 13 | <i>Early Release</i> |
| 16 | Graphical Representations of Summary Statistics |
| 17 | Comparing Distributions of a Quantitative Variable |
| 18 | The Normal Distribution |
| 19 | The Normal Distribution |
| 20 | The Normal Distribution |
| 23 | Review Unit 1 |
| 24 | Review Unit 1 |
| 25 | Test Unit 1 |
| 26 | Introducing Statistics: Are Variables Related? |
| 27 | Representing Two Categorical Variables |
| 30 | Statistics for Two Categorical Variables |
| OCTOBER | |
| 1 | Representing the Relationship Between Two Quantitative Variables |
| 2 | Correlation |
| 3 | Linear Regression Models |
| 4 | <i>Student Holiday/ Staff Development</i> |
| 7 | Residuals |
| 8 | Least Squares Regression |
| 9 | Least Squares Regression |
| 10 | Analyzing Departures from Linearity |
| 11 | Review Unit 2 |
| 14 | Review Unit 2 |
| 15 | Test Unit 2 |
| 16 | Introducing Statistics: Do the Data We Collected Tell the Truth? |
| 17 | Planning a Study - Observation |
| 18 | Planning a Study - Survey |

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| 21 | Random Sampling and Data Collection |
| 22 | Potential Problems with Sampling |
| 23 | Potential Problems with Sampling |
| 24 | Introduction to Experimental Design |
| 25 | Selecting an Experimental Design |
| 28 | Inference and Experiments |
| 29 | Inference and Experiments |
| 30 | Inference and Experiments |
| 31 | Project Start – Create Experiment |
| NOVEMBER | |
| 1 | Project Continue |
| 4 | Project Continue |
| 5 | Project Continue |
| 6 | Project Present |
| 7 | Project Present |
| 8 | <i>Student Holiday/Staff Development</i> |
| | <i>***** End Second Six Weeks*****</i> |
| | <i>*****Start Third Six Weeks*****</i> |
| | |
| 11 | Review Unit 3 |
| 12 | Test Unit 3 |
| 13 | Introducing Statistics: Random and Non-Random Patterns? |
| 14 | Estimating Probabilities Using Simulation |
| 15 | Introduction to Probability |
| 18 | Probability |
| 19 | Mutually Exclusive Events |
| 20 | Conditional Probability |
| 21 | Independent and Union of Events |
| 22 | <i>Early Release</i> |
| 25 | <i>THANKSGIVING HOLIDAY</i> |
| 26 | <i>THANKSGIVING HOLIDAY</i> |
| 27 | <i>THANKSGIVING HOLIDAY</i> |
| 28 | <i>THANKSGIVING HOLIDAY</i> |
| 29 | <i>THANKSGIVING HOLIDAY</i> |
| DECEMBER | |
| 2 | Introduction to Random Variables and Probability Distributions |
| 3 | Mean and Standard Deviation of Random Variables |
| 4 | Mean and Standard Deviation of Random Variables |
| 5 | Combining Random Variables |
| 6 | Introduction to binomial distribution |
| 9 | Parameters for a binomial distribution |
| 10 | Project – Use of binomial distribution |
| 11 | Project – Use of binomial distribution |
| 12 | Project – Use of binomial distribution |
| 13 | Project – Use of binomial distribution – Unit 4 Test Grade |
| 16 | Fall Semester Exam Review |
| 17 | Fall Semester Exam Review |
| 18 | Fall Semester Exam |
| 19 | Fall Semester Exam |
| 20 | <i>Early Release</i> |

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| | |
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| | *****End Third Six Weeks***** |
| | *****End Semester One***** |
| 23 | <i>CHRISTMAS HOLIDAYS</i> |
| 24 | <i>CHRISTMAS HOLIDAYS</i> |
| 25 | <i>CHRISTMAS HOLIDAYS</i> |
| 26 | <i>CHRISTMAS HOLIDAYS</i> |
| 27 | <i>CHRISTMAS HOLIDAYS</i> |
| 30 | <i>CHRISTMAS HOLIDAYS</i> |
| 31 | <i>CHRISTMAS HOLIDAYS</i> |
| JANUARY | |
| 1 | <i>CHRISTMAS HOLIDAYS</i> |
| 2 | <i>CHRISTMAS HOLIDAYS</i> |
| 3 | <i>CHRISTMAS HOLIDAYS</i> |
| 6 | <i>Staff Workday</i> |
| 7 | <i>Student Holiday/Staff Development</i> |
| | *****Start Semester Two***** |
| | *****Start Fourth Six Weeks***** |
| 8 | Introducing Statistics: Why Is My Sample Not Like Yours? |
| 9 | The Normal Distribution, Revisited |
| 10 | The Central Limit Theorem |
| 13 | The Central Limit Theorem |
| 14 | Biased and Unbiased Point Estimates |
| 15 | Sampling Distributions for Sample Proportions |
| 16 | Sampling Distributions for Differences in Sample Proportions |
| 17 | <i>Student/Staff Holiday</i> |
| 20 | <i>Student Holiday/Teacher Workday</i> |
| 21 | Sampling Distributions for Differences in Sample Proportions |
| 22 | Sampling Distributions for Sample Means |
| 23 | Sampling Distributions for Sample Means |
| 24 | Sampling Distributions for Differences in Sample Means |
| 27 | Review Unit 5 |
| 28 | Review Unit 5 |
| | |
| 29 | Test Unit 5 |
| 30 | Introducing Statistics: Why Be Normal? |
| 31 | Constructing a Confidence Interval for a Population Proportion |
| FEBRUARY | |
| 3 | Constructing a Confidence Interval for a Population Proportion |
| 4 | Justifying a Claim Based on a Confidence Interval for a Population Proportion |
| 5 | Setting Up a Test for a Population Proportion |
| 6 | Interpreting p-Values |
| 7 | Interpreting p-Values |
| 10 | Concluding a Test for a Population Proportion |
| 11 | Potential Errors When Performing Tests |
| 12 | Confidence Intervals for the Difference of Two Proportions |
| 13 | Confidence Intervals for the Difference of Two Proportions |
| 14 | <i>Student Holiday/Staff Development</i> |
| | *****End Fourth Six Weeks***** |
| | *****Start Fifth Six Weeks***** |

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| 17 | <i>Student Holiday/Teacher Workday</i> |
| 18 | Justifying a Claim Based on a Confidence Interval for a Difference of Population Proportions |
| 19 | Setting Up a Test for the Difference of Two Population Proportions |
| 20 | Carrying Out a Test for the Difference of Two Population Proportions |
| 21 | Review Unit 6 |
| 24 | Review Unit 6 |
| 25 | Test Unit 6 |
| 26 | Introducing Statistics: Should I Worry About Error? |
| 27 | Constructing a Confidence Interval for a Population Mean |
| 28 | Justifying a Claim About a Population Mean Based on a Confidence Interval |
| MARCH | |
| 2 | Setting Up a Test for a Population Mean |
| 3 | Carrying Out a Test for a Population Mean |
| 4 | Confidence Intervals for the Difference of Two Means |
| 5 | Confidence Intervals for the Difference of Two Means |
| 6 | <i>Early Release</i> |
| 9 | <i>SPRING BREAK</i> |
| 10 | <i>SPRING BREAK</i> |
| 11 | <i>SPRING BREAK</i> |
| 12 | <i>SPRING BREAK</i> |
| 13 | <i>SPRING BREAK</i> |
| 16 | Justifying a Claim About the Difference of Two Means Based on a Confidence Interval |
| 17 | Skills Focus: Selecting, Implementing, and Communicating Inference Procedures |
| 18 | Review Unit 7 |
| 19 | Test Unit 7 |
| 20 | Introducing Statistics: Are My Results Unexpected? |
| 23 | Setting Up a Chi-Square Goodness of Fit Test |
| 24 | Carrying Out a Chi-Square Test for Goodness of Fit |
| 25 | Carrying Out a Chi-Square Test for Goodness of Fit |
| 26 | Expected Counts in Two-Way Tables |
| 27 | Expected Counts in Two-Way Tables |
| 30 | Setting Up a Chi-Square Test for Homogeneity or Independence |
| 31 | Setting Up a Chi-Square Test for Homogeneity or Independence |
| APRIL | |
| 1 | Carrying Out a Chi-Square Test for Homogeneity or Independence |
| 2 | Carrying Out a Chi-Square Test for Homogeneity or Independence |
| 3 | Skills Focus: Selecting an Appropriate Inference Procedure for Categorical Data |
| | ***** <i>End Fifth Six Weeks</i> ***** |
| | ***** <i>Start Sixth Six Weeks</i> ***** |
| 6 | <i>English 1 STAAR EOC Test</i> |
| 7 | Review Unit 8 |
| 8 | <i>English 2 STAAR EOC Test</i> |
| 9 | Review Unit 8 |
| 10 | <i>Student/Staff Holiday</i> |
| 13 | <i>Student/Staff Holiday</i> |
| 14 | <i>Student/Teacher Workday</i> |
| 15 | Review Unit 8 |
| 16 | Test Unit 8 |

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| 17 | General Review of All Statistics |
| 20 | Introducing Statistics: Do Those Points Align? |
| 21 | Introducing Statistics: Do Those Points Align? |
| 22 | Confidence Intervals for the Slope of a Regression Model |
| 23 | Confidence Intervals for the Slope of a Regression Model |
| 24 | Confidence Intervals for the Slope of a Regression Model |
| 27 | Justifying a Claim About the Slope of a Regression Model Based on a Confidence Interval |
| 28 | Justifying a Claim About the Slope of a Regression Model Based on a Confidence Interval |
| 29 | Setting Up a Test for the Slope of a Regression Model |
| | |
| 30 | Setting Up a Test for the Slope of a Regression Model |
| MAY | |
| 1 | Setting Up a Test for the Slope of a Regression Model |
| 4 | Carrying Out a Test for the Slope of a Regression Model |
| 5 | <i>Algebra 1 STAAR EOC Test</i> |
| 6 | <i>Biology STAAR EOC Test</i> |
| 7 | <i>US History STAAR EOC Test</i> |
| 8 | Carrying Out a Test for the Slope of a Regression Model |
| 11 | Carrying Out a Test for the Slope of a Regression Model |
| 12 | Skills Focus: Selecting an Appropriate Inference Procedure |
| 13 | Skills Focus: Selecting an Appropriate Inference Procedure |
| 14 | Skills Focus: Selecting an Appropriate Inference Procedure |
| 15 | Skills Focus: Selecting an Appropriate Inference Procedure |
| 18 | Skills Focus: Selecting an Appropriate Inference Procedure |
| 19 | <i>Semester Exam Review</i> |
| 20 | <i>Semester Exam Review</i> |
| 21 | <i>Semester Exam Review</i> |
| 22 | <i>Semester 2 Exam 1,3,5,7</i> |
| 25 | <i>Student Holiday/Teacher Workday</i> |
| 26 | <i>Semester 2 Exam 2,4,6,8</i> |
| 27 | <i>Semester Exam Make-Up Day</i> |
| 28 | <i>Semester Exam Make-Up Day</i> |
| | <i>*****End Sixth Six Weeks*****</i> |
| | <i>*****End Semester Two*****</i> |
| 29 | <i>Student Holiday/Teacher Workday</i> |
| JUNE | |
| 1 | <i>Student Holiday/Teacher Workday</i> |