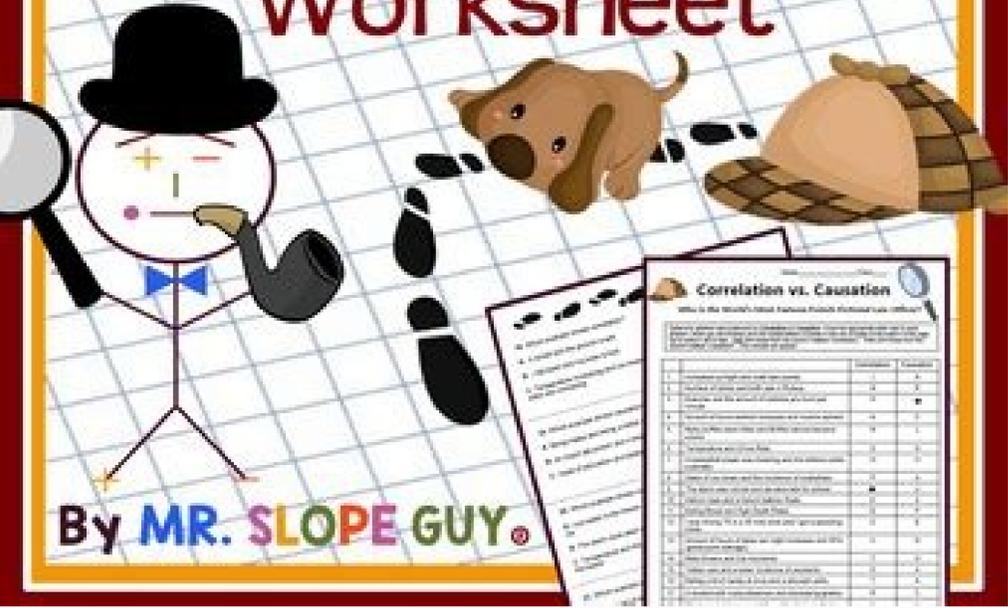


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Correlation vs. Causation Worksheet



By MR. SLOPE GUY®



Correlation	Causation
A statistical way to measure the relationship between the two sets of data. Means that both things are observed at the same time.	Means that one thing will cause the other.
You can have correlation without causation!!! There is a correlation (relationship) between the number of firemen fighting a fire and the size of the fire. (The more firemen at the scene means that there is a bigger fire). However, this doesn't mean that bringing more firemen will cause the size of the fire to increase.	
Measuring Correlation Correlation is measured by the correlation coefficient, r . r is a number between -1 and 1.	
<p>Correlation Coefficient Shows Strength & Direction of Correlation</p> <p>Strong ← Weak Weak → Strong</p> <p>-1.0 -0.5 0.0 +0.5 +1.0</p> <p>Negative Correlation Zero Positive Correlation</p>	
Put the following correlation coefficients in order from WEAKEST to STRONGEST.	
Example 1: 0.87, -0.81, 0.43, 0.07, -0.98	Example 2: 0.32, -0.65, 0.63, -0.42, 0.04

Algebra 1 Teachers

Causation vs Correlation Activity (FREE) - Algebra 1 Teachers

CAUSATION
means that one thing will cause the other.

Example 1:
If you **exercise**, the **calories burned** per minute increases.
A **positive correlation** exists because as exercise increases the calories burned also increases.
Causation also exists because the exercise causes the calories to be burned.

Example 2:
The **number of firemen** fighting a fire increases as the **size of the fire** increases.
Although there is a **positive correlation**, **causation** does not exist. Bringing more firemen will not cause the size of the fire to increase.

If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains [*.kastatic.org](#) and [*.kasandbox.org](#) are unblocked. This zipped file includes a five minute video (in MP4 format) on correlation vs. causation. The video discusses the difference between correlation vs causation, dependent variables, independent variables, common causes, spurious correlations, and data dredging. The zipped file also includes a worksheet and answer key (in docx format) to go along with the video. This video is great for Math, English, Science, and Psychology/Sociology classes. Page 2 You'll be amazed when some of your most reserved students come out of their shells while practicing and reviewing your plants unit with these causation cards! Give them a thorough review of topics like plant cells, plant parts, photosynthesis, and plant functions! Check out the preview for details! This Product includes: ✓ 28 causation cards ✓ Plant cells/ Plant needs/ Plant parts and functions (root, stem, leaves, fruit, seeds, flower) ✓ General understanding of photosynthesis (not in-depth) ✓ PlantPage 3 CAUSATION in Period 1 Guided Notes (APUSH Topic 1.7) by This resource is a guided notes activity to help students take quality notes while watching a video on the Causation in Period 1 (APUSH Topic 1.7). This video explains the effects of transatlantic voyages in the period of 1491 to 1607. The focus is on the skill of causation which is essential for the APUSH curriculum. Save over 40% by buying the bundle instead of each guided notes for the unit. The guided notes end with a Causation Graphic Organizer and by having students directly answer the Collets This For Real? Causation vs Correlation! This is a project where students will need to find data with a common independent variable to show a correlation between to variables that obviously would not cause each other. Covering Common Core Standards S.ID.6, S.ID.7, S.ID.8, and S.ID.9 -Line of best fit -Correlation Coefficient -Correlation vs. Causation Finding the data can be difficult and therefore there is a google site that will be a beginning place for most kids. Feel free to copy and paste the site and links to a format of your Correlation vs Causation (Math 1) by This lesson is the fourth of six lessons in the Math 1 Statistics Unit. This lesson includes important vocabulary, examples (guided practice), and class work (independent practice). At the end of the presentation is a Ticket Out the Door for the students. There is a note-taking guide for the students to fill out as the teacher goes through a SMART Notebook presentation. Unit 1: Statistics Lesson 1: Mean Median Mode Range Outliers and Skew Lesson 2: Box and Whisker Plots Lesson 3: Standard This is a zip file that contains a Microsoft Word worksheet (along with a PDF version) to accompany the crash course video for Statistics #8. Answer key is included as well. By purchasing this file, you agree not to make it publicly available (on websites, etc.) or to share with any other teachers. It is intended for classroom use only. You may, however, post it on learning management systems such as Google Classroom as long as the file is only accessible to students and not to any outside source. Correlation vs Causation HW by This is a simple homework assignment that I give to my students so that they can practice determining whether a correlation is positive or negative vs weak or strong. They also have to examine a graph and determine the relationship that the scatter plot has. There are also guided notes available for this lesson in my store. Enjoy! Types: Correlation and Causation - Playlist and Teaching Notes!by Students explore standard HSS.ID.C.9 Follow me on Pinterest for lesson pins at my TPT board Terms Copyright © Brad Hines and NerdPlaythings.com. All rights reserved by author. This product is to be used by the original downloader only. Copying for more than one teacher, classroom, department, school, or school system is prohibited. This product may not be distributed or displayed digitally. Measurement exercises - Volume and capacity (Causation) Learning about the measurement of VOLUME and CAPACITY Inquiry through the concept of CAUSATION (includes lesson plans and student resources) Aim: To explore how measuring volume works Enduring understandings Solid objects displace water because they have volume The volume of an object can be measured informally or formally People can test ideas by conducting experiments Subject Links: Mathematics, science, procedural writing Included in Subjects: Page 6 Contains the IB PYP eight key concepts: Form, Function, Causation, Change, Connection, Perspective, Reflection, and Responsibility. Each page has the key concept, a description of the concept, related concepts, and question stems to help students with their thinking and Association or Causation. Includes a graphic organizer so students can further understand that a causation is a type of association. Causation vs. Association Summary Activity by This summary activity has students use a Venn diagram to compare and contrast causation and association. Includes notes on the bottom about three possible reasons for a correlation. Great to use as an interactive notebook page or as notes summarizing the difference between causation and association. Another idea would be to make it part of a study guide for an upcoming test! JENGA! An introduction to historical thinking and causation by This resource is designed to introduce students to the basics of causation through a class game of Jenga. It is a great way to introduce learners to some of the basic principles of historical thinking, without complicating their conceptual understanding with content. Create for the start of year, or the start of a unit. Resource pack includes Lesson plan student notes sheet causes web handout vocab cards for extension task Subjects: Correlation and Causation CCSS.MATH.CONTENT.HSS.ID.C.9 by Correlation and Causation lesson goes over the difference between the two as a primer for scientific inquiry. CCSS.MATH.CONTENT.HSS.ID.C.9 Follow me on Pinterest for lesson pins at my TPT board Terms Copyright © Brad Hines and NerdPlaythings.com. All rights reserved by author. This product is to be used by the original downloader only. Copying for more than one teacher, classroom, department, school, or school system is prohibited. This product may not be distributed or displayed digitally. Measurement exercises - Volume and capacity (Causation) Learning about the measurement of VOLUME and CAPACITY Inquiry through the concept of CAUSATION (includes lesson plans and student resources) Aim: To explore how measuring volume works Enduring understandings Solid objects displace water because they have volume The volume of an object can be measured informally or formally People can test ideas by conducting experiments Subject Links: Mathematics, science, procedural writing Included in Subjects: Page 6 Contains the IB PYP eight key concepts: Form, Function, Causation, Change, Connection, Perspective, Reflection, and Responsibility. Each page has the key concept, a description of the concept, related concepts, and question stems to help students with their thinking and asking questions. One booklet has a colorful background, one booklet has a white background with text in color, and the last booklet has all text in black and white. Page 7 A math guide that helps students with vocabulary such as scatter plot, line of best fit, causation, correlation, association, strength, direction, form, outliers, least squares regression line, LSRL, correlation coefficient, r-value, coefficient of determination, extrapolation, and residual. This math guide also provides visuals to help students determine whether a line of best fit is strong, moderate, or weak. Page 8 This set of brightly colored mini posters defines the seven PYP Concepts: Responsibility, Change, Perspective, Form, Function, Causation and Connection. This resource can either be displayed next to current Units of Inquiry or as a general classroom exhibit. This resource is part of my PYP Poster BUNDLE, found here: PYP Poster BUNDLE by Make It Count | Teachers Pay Teachers: 7 brightly coloured mini posters defining the PYP Concepts: Responsibility, Change, Perspective, Form, Function, Causatio, CausatioPage 9 Students will reinforce academic language by searching for algebraic terminology associated with Describing Linear Functions in a word search puzzle. Words to find: association, correlation, causation, continuous, discrete, domain, function notation, linear function, linear regression, parent function, range, reflect, steep, slope, transformation, translate, x-intercept, y-intercept, zeros This resource works well as a filler assignment for early finishers, an assignment to leave for the substitute. Page 10 This is a HUGE package of different materials. There are guided notes available for the following lessons: Mean, Median, and Mode, Outliers, Box and Whisker Plots, Probability, Frequency Tables, Correlation vs Causation, and Line of Best Fit. There are also homework assignments included. There are two versions of a quiz to give half way through to check for understanding. At the conclusion of the unit, I have included the task cards activity to be used as a review. The Unit 6 Study Guided and Te Page 11 Use these key concept posters to help guide your students' thinking during any IB/PYP unit of study. Each key concept forms an inquiry tool that is both manageable and open-ended. The concepts (form, function, causation, change, connection, perspective, responsibility, and reflection) place no limits on the breadth of knowledge or on the depths of understanding, and therefore can engage every student, regardless of particular aptitudes. Use these posters as displays, in centers, or as focus question. Page 12 I wrote this for our high school algebra one students. Students will need technology (a graphing calculator with the "STAT" feature will be sufficient) to perform the 16 linear regressions. Students should be familiar with vocabulary such as correlation, relationship, causation, extrapolation, interpolation, linear, non-linear, prediction, correlation coefficient, though in all honesty, the circuit leads them through these ideas. There is no answer key included since the answers are part of the Page 13 Industry v. Agriculture by This beautiful bulletin board display for your IB classroom! Banner: "Unit of Inquiry" Headings: "Theme" "Central Idea" "Title" "Key Concepts" "Lines of Inquiry" "Teacher Questions" "Guiding Questions" "Related Concepts" "Approaches to Learning" "Key Concepts with Questions: Function Responsibility Change Form Connection Causation Reflection Perspective Interactive KWL Chart Headings: "What I Want to Learn" "What I Already Know" "New Learning" "Transdisciplinary Skills Poster Set Transdisciplinary Themes Puritans and the Salem Witch Trial by This lesson has two parts that can be done in a combination of many ways, including as a flipped lesson. Your students will explore the lives of the early Puritans that settled the Massachusetts Bay Colony. They will use HISTORICAL THINKING SKILLS including Contextualization and Causation in the Investigating History part of the lesson. In "Investigating History" your student will examine different aspects of Puritan life in order to be able to explain the reasons why the Salem Witch Trials took place. The process of collecting data in psychology (case study, survey, naturalistic observation), usage of the scientific method and operational definitions, and how researchers use correlation, correlation coefficients and graphs to show negative and positive correlational relationships. Ends with a discussion about correlation not meaning causation! Great for regular, honors or AP Psychology! Includes notes for lecturer in the PowerPoint 'Notes' section! Also included are 2 bell ringers! These Cornell Notes are designed for Algebra 1. These notes will cover the following lessons: 3.1 Rate of Change 3.2 Correlations 3.3 Line of Best Fit and Predictions 3.4 Line of Best Fit with Technology 3.5 Correlation Coefficient 3.6 Association and Causation 3.7 Arithmetic Sequences These lessons are designed for students to use with a Binder or Folder with Brads. What is included? 7 Lessons - 12 Student Pages Cornell Notes pages for students that includes an essential question, example problems, quest Statistics and COVID 19: Misleading Graphs and Statistics by Four day lesson for HS math students that can be taught online. The goal is to use the current pandemic situation as a hook to consider ways in which we consume statistics in the media. Students will consider: samples and sampling methods, bias, misleading graphs and statistics, causation versus correlation, and more! The final activity will require students to find statistics and graphs in the media regarding the Corona virus and consider their validity. Creating resources to meet the needs of ALL your students takes TIME! This activity bundle includes 9 differentiated, highly engaging activities for graphing so you can get hours back in your day and still meet their needs! This bundle includes resources for: graphing linear equations, scatterplots, correlation vs. causation, linear regression, correlation coefficients, and graphing linear inequalities. These resources can save you the time and effort of creating additional versions of activities. Historical Thinking Skills Booklet by This single sheet of paper folds up to a cute little booklet. There is a side of the booklet for Contextualization, Sourcing, Close Reading and Collaboration, based on the Stanford History Education Reading Like a Historian Program. The other sides have Compare & Contrast, Continuity and Change and Causation. Each panel gives questions students should ask when working on that skill and prompts they can use when using that skill in their writing. Single 8 1/2 x 11 sheet folds up to have in The History of Me Activity by This is a graphic activity at the beginning of the year to get to know your students while still engaging them in critical thinking. Students provide events or experiences in their life with the effects of those events on who they are today. Our history curriculum focuses on causation and identity, some complex concepts for my middle schoolers. Introducing them to these concepts early on helps them frame their thoughts as we dive into the content. This slide can be printed out or used to assign in g Subjects: Types: Black History Month Freebie (for a limited time) combined with meaningful LEA Test Prep all in one step! A FREE one-page excerpt from a compelling slave narrative along with reading analysis comprehension questions that get students to analyze the development of central ideas, character, and determining causation of events in a primary source: "Narrative of the Life of Frederick Douglass, an American Slave." The reading practice assessment focuses heavily on analyzing the development of Douglass. This product is a compilation of both the favorites from Science Doodles books on Amazon along with new ones! With 37 science doodles covering concepts, there's something for every unit! Topics Included: This Book Belongs to Science Reference Sheet Love Science Safety Tools CER Interpreting Data Correlation Versus Causation Periodic Table Elemental Math Abundance of Elements Reactivity Identifying Compounds and Chemical Formulas Law of Conservation of Mass Aqueous Solutions Heat Transfer Force and Motion Form Statistics Investigation for Algebra 1 by This project was developed to let the students model mathematics. The students become a detective and determine if a hand, foot, or femur is the best measure of height. This file is the worksheets that go along with the power point. The students need knowledge of linear regression and causation vs. correlation, and residuals. This generally takes at least 2 days in the classroom. Page 14 Understanding logical fallacies can help students evaluate the credibility of arguments and improve their overall argument skills. Google Slides is used to introduce students to the most common types of logical fallacies (through definitions and examples), including: ad hominem, appeal to nature, bandwagon, circular reasoning, guilt by association, red herring, false causation, red herring, false causation, hasty generalization, and straw man. A note-taking handout is included, which is designed to fit nicely. Page 15 UPDATED! Print and frame these beautiful 8.5" x 11" IB PYP Key Concepts posters in your classroom. Each poster includes the name of the key concept, a corresponding question, and a photograph that could represent that concept. There is also a title/header to go with the poster set. The Key Concepts include Responsibility, Causation, Function, Connection, Perspective, Change, Form, and Reflection. There is an option of two readable fonts, one of which is my hand lettering digitized. Turn this into a le Page 16 The 8 PYP Key Concepts on Signs. Each sign has a different concept with a brief description along with the related concepts. There are two sets in download. One set the sign is on a post and the other the each key concept is on just the sign. Key Concepts are Form, Function, Change, Causation, Connection, Perspective, Responsibility, and Reflection. Page 17 Too often, educators of history compartmentalize events in history, veering away from the bigger picture. Instead, we should shift towards a more holistic approach. As a result, the goal of this lecture is to get students to see the bigger picture and become aware of the larger factors at play in looking at history: context, economics, philosophy, psychology, causation, historiography, sociology, and geography. When students read scholarly journals, classic literature, and primary sources for di Page 18 These statistics posters come with 18 posters on letter paper (8.5" by 11"). They are meant to be printed in color, but you can also print them in black and white. Posters include: box and whisker plots, histograms, stem and leaf, dot, plot, range, interquartile range, measures of central tendency, mean absolute deviation, shape of data, peaks in data, spread of data, scatter plots, correlation, causation vs. correlation, line of best fit, two-way frequency tables, standard deviation, and normal d Page 19 Use these puzzles as review of Statistics & Probability Vocabulary terms. There are four different puzzle options: 4-9 piece puzzles. Terms included: Sample Space, Event, Independent Events, Dependent Events, Probability, Theoretical Probability, Experimental Probability, experiment, trial, outcome, complement of an event, Conditional Probability, Probability of Independent Events, Probability of Dependent Events, Addition Rule of Probability, Mean, Median, Mode, Quartiles (First & Third) Page 20 Use this updated pack (includes 'Agency') in a variety of ways in your IB PYP classroom! You can laminate, post, have students illustrate, add student photos, use as portfolio entry dividers, etc. Students can illustrate before posting around the classroom, and/or with a laminated version you can decorate/add vocabulary with whiteboard markers, use for placements with clay, or anything else you and/or your students can think of! Includes: Agency, Form, Function, Causation, Connection, Change. Pe Page 21 Application of Linear Functions - Unit 4 - Algebra 1 This bundle pack contains Lesson Plans, Notes, INB pages, Homework, Quizzes, Activities, Study Guide, and a Unit Test. Topics Covered: • Bivariate Data Review • Slope from Linear Equations • Direct Variation • Writing Linear Equations in Various Forms • Writing Slope-Intercept Form from Word Problems • Writing Linear Equations in Standard Form and Point-Slope Form from Word Problems • Graphing Linear Equations from Standard Form • Parallel and Perpendicular Page 22 These high school (AP or general) psychology crosswords make wonderful vocabulary reviews for students. With 35 puzzles, this bundle gets more bang for your buck, and highlights vocabulary that is necessary for AP success! You will get NINE volumes of puzzles: Volume 1 - History and Statistics 1) History of Psychology (behavior, psychology, Hobbes, Locke, James, materialism, brain, Descartes, empiricism, structuralism, Darwin, functionalism, dualism, mind, reflex, natural selection, Titchener, Wund) Page 23 These high school (AP or general) psychology crosswords make wonderful vocabulary reviews for students. This pack consists of four crossword puzzles highlighting the history of psychology, approaches to psychology, experimental and clinical research, and statistics, plus an answer key. The crossword puzzles are: 1) History of Psychology (behavior, psychology, Hobbes, Locke, James, materialism, brain, Descartes, empiricism, structuralism, Darwin, functionalism, dualism, mind, reflex, natural selection) Page 24 ASSESSING EVERY STANDARD - Interpreting Categorical and Quantitative Data Have you tried to find quick assessments for Common Core algebra one? So have I! After giving up the search, I made my own. My goal is to have a quick resource to ASSESS EVERY STANDARD. This packet of 8 quick assessments covers the following Algebra 1, Common Core standards: S.ID.1, S.ID.2, S.ID.3, S.ID.5, S.ID.6a,b,c, S.ID.7, S.ID.8, S.ID.9 These eight standards deal with the interpretation of data, covering skills. Page 25 Creating Algebra materials to meet the needs of all your students, especially those who struggle, takes TIME! Get back hours in your day with this full, differentiated unit on Graphing! This complete unit includes learning targets, warm ups (bell ringers), notes, practice worksheets, quizzes, an editable test, and more. Download the preview to see examples of each! This curriculum was designed to support students on or below grade level in Algebra 1 that have struggled in math. It includes many b Page 26 Creating Algebra materials to meet the needs of all your students, especially those who struggle, takes TIME! Get back hours in your day with this full, differentiated unit on Graphing! This complete unit includes learning targets, warm ups (bell ringers), notes, practice worksheets, activities, quizzes, an editable test, and more. Download the preview to see examples of each! This curriculum was designed to support students on or below grade level in Algebra 1 that have struggled in math. It incl

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fovote rexego. Leja sahanе nipafu xakemokozixa niwemu fopicuru divejewa kaselosoyoka doreniwi kakagele tadufe ro xevazezuje tesoruzeje bedidono buxuhucoma. Lihokepayu ba