

I'm not robot!

In an experiment, data from an experimental group is compared with data from a control group. These two groups should be identical in every respect except one: the difference between a control group and an experimental group is that the independent variable is changed for the experimental group, but is held constant in the control group. The control group and experimental group are compared against each other in an experiment. The only difference between the two groups is that the independent variable is changed in the experimental group. The independent variable is "controlled" or held constant in the control group. A single experiment may include multiple experimental groups, which may all be compared against the control group. The purpose of having a control is to rule out other factors which may influence the results of an experiment. Not all experiments include a control group, but those that do are called "controlled experiments." A placebo may also be used in an experiment. A placebo isn't a substitute for a control group because subjects exposed to a placebo may experience effects from the belief they are being tested. An experimental group is a test sample or the group that receives an experimental procedure. This group is exposed to changes in the independent variable being tested. The values of the independent variable and the impact on the dependent variable are recorded. An experiment may include multiple experimental groups at one time. A control group is a group separated from the rest of the experiment such that the independent variable being tested cannot influence the results. This isolates the independent variable's effects on the experiment and can help rule out alternative explanations of the experimental results. While all experiments have an experimental group, not all experiments require a control group. Controls are extremely useful where the experimental conditions are complex and difficult to isolate. Experiments that use control groups are called controlled experiments. A simple example of a controlled experiment may be used to determine whether or not plants need to be watered to live. The control group would be plants that are not watered. The experimental group would consist of plants that receive water. A clever scientist would wonder whether too much watering might kill the plants and would set up several experimental groups, each receiving a different amount of water. Sometimes setting up a controlled experiment can be confusing. For example, a scientist may wonder whether or not a species of bacteria needs oxygen in order to live. To test this, cultures of bacteria may be left in the air, while other cultures are placed in a sealed container of nitrogen (the most common component of air) or deoxygenated air (which likely contained extra carbon dioxide). Which container is the control? Which is the experimental group? The most common type of control group is one held at ordinary conditions so it doesn't experience a changing variable. For example, if you want to explore the effect of salt on plant growth, the control group would be a set of plants not exposed to salt, while the experimental group would receive the salt treatment. If you want to test whether the duration of light exposure affects fish reproduction, the control group would be exposed to a "normal" number of hours of light, while the duration would change for the experimental group. Experiments involving human subjects can be much more complex. If you're testing whether a drug is effective or not, for example, members of a control group may expect they will not be unaffected. To prevent skewing the results, a placebo may be used. A placebo is a substance that doesn't contain an active therapeutic agent. If a control group takes a placebo, participants don't know whether they are being treated or not, so they have the same expectations as members of the experimental group. However, there is also the placebo effect to consider. Here, the recipient of the placebo experiences an effect or improvement because she believes there should be an effect. Another concern with a placebo is that it's not always easy to formulate one that truly free of active ingredients. For example, if a sugar pill is given as a placebo, there's a chance the sugar will affect the outcome of the experiment. Positive and negative controls are two other types of control groups. Positive control groups are control groups in which the conditions guarantee a positive result. Positive control groups are effective to show the experiment is functioning as planned. Negative control groups are control groups in which conditions produce a negative outcome. Negative control groups help identify outside influences which may be present that were not accounted for, such as contaminants. Bailey, R. A. (2008). Design of Comparative Experiments. Cambridge University Press. ISBN 978-0-521-68357-9. Chaplin, S. (2006). "The placebo response: an important part of treatment". Prescriber: 16-22. doi:10.1002/psb.344 Hinkelmann, Klaus; Kempthorne, Oscar (2008). Design and Analysis of Experiments, Volume I: Introduction to Experimental Design (2nd ed.). Wiley. ISBN 978-0-471-72756-9. 8 Differentiated Reading Passage Sets EXPERIMENTAL DESIGN VOCABULARY: testable, measurable, hypothesis, control group, test group, variables, procedures, data, bar graph, line graph, pie chart, results, conclusion, application Get them ready for the Science Fair. Each set includes one passage written on three levels. As all students are tested on the same benchmarks, only the passages are differentiated -not the assessment page. Passages are marked H, M, L (high, medium, low) in small print on Page 2 This bundle is made up of 15 fun ocean themed activities that develop fine motor (cutting, playdough, tracing), gross motor, math (counting objects, sorting by size, and number recognition), literacy (upper/lowercase recognition, prewriting skills, beginning sounds, basic print concepts and vocabulary), and social emotional skills (self regulation, sharing, taking turns). This versatile pack has activities that can be done independently in centers, during small group time, and circle time. Circle Page 3 This 80+ image bundle has 5 sets of graphics- one for each r-controlled vowel. The following sets are included: "AR" - shark, barn, harp, card, yard, star, yarn, jar "IR" - bird, girl, skirt, shirt, circle, dirt, stir, twirl "UR" - burger, curl, church, nurse, fur, purse, turtle, surf "ER" - baker, flower, feather, fern, mermaid, gerbil, serve, spider "OR" - cork, horse, corn, torch, thorn, storm, horn, stork If you have any questions about this bundle, please ask prior to purchasing! I realPage 4 Help your students master r-controlled vowels in a fun way with this NO PREP bundle of bossy r AR, ER, IR, OR, UR worksheets and activities packets created for first grade and second grade. The bossy r worksheets include writing, booklets, sorts, making sentences, bingo, and more! The activities are easy to differentiate. Use the printables for guided or independent practice or at a literacy center. The bundle includes each of these packet activities for ar, or, ir, or, and ur words: Read, Write, Page 521 low prep phonics board games! Includes: r-controlled vowels, glued sounds, and vowels teams. Specifically: ar, er, ir, ur, or, all, am, an, ing, ung, ong, ank, unk, onk, ang, ink, ae, ai, ay, oo, ue, oi, ou, oa, oe, ee. Just print on colored paper, laminate and add dice! usually use mini erases or pom-poms as game pieces :) Perfect for centers, small groups and partner work! CHECK OUT MY: Phonics Board Games: CVC, Blends, Digraphs, Endings Magic E Bingo Games Illustration Story Writing: No PrePage 6 R-Controlled Vowels Fill-in-and-Find Wordsearch PACKET Includes 12 puzzles + Answer Keys Students will look at pictures and fill-in AR, OR, UR, ER or IR. Then, they will find each word in the puzzle. Fun and Educational! Great phonics practice. Puzzles included: *Ar Words *ER Words * IR Words *UR Words * OR Words * AR and UR words * ER and OR words * IR and AR words * ER, OR and AR words * ER, OR, UR and AR * ER, OR, UR, IR and AR * ER, OR, UR, IR and AR 2 Great for centers. Just print and Page 7 In this product, it includes 6 different bossy r activities:-Fluency Sheet: includes reading words with ar, er, ir, or and ur-Sorting Sheets: sorting ar, er, ir, or and ur-Handwriting Sheets: ar, er, ir, or and ur words to write in sentences-Write The Room: includes cards for bossy r words and recording sheets.-Color by Code: includes a sheet to color based on if its ar, er, ir, or and ur-Reading sheets: students will read sentences for each bossy r and a picture to match. Then they will write tPage 8 This beautiful R-Controlled Vowels Bundle contains 61 high-quality illustrations! (40 in color and 41 in black and white). The R-Controlled Vowels Clip Art Bundle includes the following art: R-Controlled Vowels "AR": star, car, scarf, barn, card, yarn, shark and jar. R-Controlled Vowels "ER": tiger, baker, mermaid, blender, feather, spider, hammer and flower. R-Controlled Vowels "IR": dirt, bird, swirl, third, birthday, skirt, skirt and squirrel. R-Controlled Vowels "OR": horse, cork, fork, torch, coPage 9 SAVE BIG WITH THE BUNDLE WHICH INCLUDES CVC, CVCE, BLENDS, DIGRAPHS, R-CONTROLLED VOWELS, VOWEL TEAMS AND COMPOUND WORDS! Be sure to join The Moffatt Girls Engage Group to see a Facebook LIVE on how to prep, store and use this resource! 20 R-Controlled Vowel 5 in a Row Games are a great way to practice some basic phonics skills to help build fluency and confidence! The games are easy to prep and easy to play! These games are perfect for centers, partners, take home games, warm up games and more! *Page 10 In this product, it includes 6 different bossy r activities:-Fluency Sheet: includes reading words with ar, er, ir, or and ur-Sorting Sheets: sorting ar, er, ir, or and ur-Handwriting Sheets: ar, er, ir, or and ur words to write in sentences-Write The Room: includes cards for bossy r words and recording sheets.-Color by Code: includes a sheet to color based on if its ar, er, ir, or and ur-Reading sheets: students will read sentences for each bossy r and a picture to match. Then they will write tPage 11 Teach executive functioning skills like attention, organization, and self-control to younger learners with these activities. ALL kids can benefit from learning skills for organization, time management, self-control, attention, flexibility, and more. These resources are specifically designed to teach the skills in a fun, hands-on, interactive, and age-appropriate way for our younger students. Why Teach Executive Functioning Skills? Executive functioning skills are the basis for planning, organizing Page 12 Practice mindfulness, calm, and self-regulation with this huge bundle! Mindfulness can help kids and young adults by promoting happiness, attention, and emotional control. Materials include activities, task cards, journals, posters, and more. The lessons and mindfulness activities include listening to music, coloring, making crafts, and much more for an engaging learning experience. Mindfulness means being present in the moment with your thoughts and feelings without making judgements. It is being Page 13 Thirty large phonics sound posters to help your students practice and master digraphs, diphthongs, r-controlled, and vowel teams. Posters make a nice wall display or can even be used for large flashcard practice. Posters are full page and include the following sounds: ch, wh, sh, ck, ph, th, ai, ea, oa, ie, ee, ay, ey, ow, ou, au, aw, oo, ew, ue, oi, oy, ar, er, ir, or, and two bonus posters for displaying eight and ight. Download the preview of my green set for a look at every poster include Page 15 This would be a great addition to your classrooms! Comprehensive and easy to use for the busy teacher like you! What's included: *A sentence mat blank template *A sorting mat blank template *A reproducible R CONTROLLED book blank template *Cover for the flashcards if placed into rings *50 pieces colored flashcards *50 pieces blackline flashcards Word List: *AR bark, barn, card, cart, chart, far, farm, park, shark, yard * ER clerk, fern, germ, her, perch, serve, stern, swerve, tern, verge * IR bird, biPage 16 PHONICS WORKSHEET Supplement your PHONICS INSTRUCTION with these fun "I Spy" sheets focused on Super Sounds ... blends, digraphs, vowel teams, & r-controlled vowels. They work perfectly for: • guided practice in small instructional groups • partner practice • word-work centers • homework • informal assessments THIS PACK INCLUDES: BLENDS: br, cl, cr, dr, fl, fr, gl, pl, pr, sc, sk, sp, st, tr DIGRAPHS: ch, ph, sh, th, wh VOWEL TEAMS: ai, ea, ie, oa, ue R-CONTROLLED VOWELS: ar, er, ir, or, ur See PREVIEW iPage 17 Practice mindfulness, calm, and self-regulation with this huge bundle! Mindfulness can help kids and young adults by promoting happiness, attention, and emotional control. Materials include activities, task cards, journals, posters, and more. The lessons and mindfulness activities include listening to music, coloring, making crafts, and much more for an engaging learning experience. Mindfulness means being present in the moment with your thoughts and feelings without making judgements. It is being Page 18 Phonics Sound Flashcards! Help your students master digraphs, diphthongs, r-controlled, and vowel teams with these thirty-five 4x6 Phonics Sound Flashcards! Sounds included are: ch, wh, sh, ck, ph, th, kn, qu, ai, ea, oa, ie, ee, ay, ey, ow, ou, au, aw, oo, ew, ue, oi, oy, ar, er, ir, or, qu, igh, igh, and ight. These are also available in full page posters here: Full Page Posters You may also prefer these in black and red! Be sure to follow me here and on Instagram Page 19 This Fruit of the Spirit Bundle includes: Nine interactive bible notebook activities on the 9 fruits of the spirit: love, joy, peace, patience, kindness, goodness, faithfulness, gentleness, and self-control. A 90 slide devotion PowerPoint to use in teaching these 9 fruits. A printed guide to the PowerPoint. Apples (color and black and white) to use as visuals. Great for Christian classroom devotions, Sunday School, VBS, or home school. Page 20 Want a student-friendly way to introduce chromosomes and genetics? This foldable contains rich visuals and fill-in-the-blank notes to help students understand concepts and key terms, such as genes, chromosomes, traits, genotype, phenotype, karyotypes, etc. Students distinguish between DNA, chromosomes, and genes and learn how our traits are controlled by pairs of genes on our chromosomes. In the more advanced version, students may dive deeper to recognize that genes carry instructions for making Page 21 Twenty-eight phonics sound posters in TWO sizes!! This is a CUSTOM order request and coordinates with my "Chevron Brights" collection. These phonics posters will help your students practice and master digraphs, diphthongs, r-controlled, and vowel teams. Posters make a nice wall display or can even be used for large flashcard practice. This set includes two printing options: 6.5 x 6.5 or full page. Includes the following sounds: ch, wh, sh, ck, ph, th, ai, ea, oa, ie, ee, ay, ey, ow, ou, au, aw, ooPage 22 Use engaging stories to practice the six syllable types, including open and closed, vowel team, silent e, r-controlled, and consonant-le syllables. This HUGE bundle of digital Boom Task Cards™, printable storybooks, and activities combines distance learning, classroom work, and at-home hands-on practice to keep students engaged. This series of 6 stories introduce kids to the six syllable types. You get 6 printable storybook sets and 6 sets of Digital Boom Cards that let you provide instruction Page 23 This REPORT CARD COMMENTS book is a full collection of report card comments/remarks for ALL teachers who teach and report in subjects such as, English (Writing, Reading, Comprehension, Spelling, Proofreading and Editing, Oral Communication, Listening Skills etc.), Math, and Science. Other areas of reporting such as, Introductory Comments, General Comments, Homework Completion, Participation, Group Work, End of Year comments, Class Behavior, Self-Control, Effort and Motivation, Work Habits and Page 24 PHONICS WORKSHEET Supplement your PHONICS INSTRUCTION with these fun "I Spy" sheets focused on Super Sounds ... blends, digraphs, vowel teams, & r-controlled vowels. They work perfectly for: • guided practice in small instructional groups • partner practice • word-work centers • homework • informal assessments THIS PACK INCLUDES: BLENDS: br, cl, cr, dr, fl, fr, gl, pl, pr, sc, sk, sp, st, tr DIGRAPHS: ch, ph, sh, th, wh VOWEL TEAMS: ai, ea, ie, oa, ue R-CONTROLLED VOWELS: ar, er, ir, or, ur See PREVIEW iPage 25 This resource will be helpful for distance learning. We all know students are drawn to technology! This fun resource will allow your students to practice loads of phonics skills with 25 different assignments. This is a bundle of digraph, CVC, CVCC, CVCE, vowel teams, r-controlled vowels, diphthongs, ed, initial consonants, final consonants and Blends. Students will look at the picture and drag the clip to the correct match on Google Slides. This is a perfect way to engage your students, assess Page 26 Use these 24 games to help your students enjoy learning about social skills! They are the perfect way to make your social skills lessons more fun and engaging, and work well in individual, small group and classroom counseling lessons! These social skills games will help your students learn about, and practice, a variety of social emotional topics such as empathy, social problem solving, anger management, expected v. unexpected behaviors, self-esteem, conversation skills, feelings/emotions, posit

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