

# IDENTIFYING VARIABLES

For each testable question,

underline the independent variable, circle the dependent variable, and list 3 constant/control variables.  
Then, write a hypothesis or prediction.

Independent Variable- One thing that the experimenter changes on purpose

Dependent Variable- Something that changes as a result of the independent variable  
(often what is measured)

Constant/Control Variable - Something kept the same on purpose

1. How does the distance from an eye chart affect the number of letters that are recognized on a line?

Constant/Control Variables: eye chart, position of viewer, light in room

Hypothesis/Prediction: \_\_\_\_\_

2. How does the amount of light affect the growth of a plant?

Constant/Control Variables: type of plant, amount of water, type/amount of soil

Hypothesis/Prediction: \_\_\_\_\_

3. How does the amount of oxygen in the water affect the oyster population?

Constant/Control Variables: temperature of water, location, time of year

Hypothesis/Prediction: \_\_\_\_\_

4. How will the amount of fertilizer used on a field affect the number of earthworms found there?

Constant/Control Variables: type of soil, temperature, amount of water

Hypothesis/Prediction: \_\_\_\_\_

5. How does the length of a string affect the number of times a pendulum will swing back and forth in 10 seconds?

Constant/Control Variables: mass of pendulum, distance pulled back, height of pendulum

Hypothesis/Prediction: \_\_\_\_\_

6. How does the size of a bicycle tire affect the distance it will travel when it is pedaled in a given number of times?

Constant/Control Variables: inflation of tire, force of pedal, terrain (grass vs. blacktop)

Hypothesis/Prediction: \_\_\_\_\_

# Identifying Variables Worksheet Answers

**Andrew Yiannakis**



## Identifying Variables Worksheet Answers:

*The Science Teacher's Toolbox* Tara C. Dale, Mandi S. White, 2020-04-09 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher's Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Science Teacher's Toolbox is a classroom tested resource offering hundreds of accessible student friendly lessons and strategies that can be implemented in a variety of educational settings Concise chapters fully explain the research basis necessary technology Next Generation Science Standards correlation and implementation of each lesson and strategy Favoring a hands on approach this book provides step by step instructions that help teachers to apply their new skills and knowledge in their classrooms immediately Lessons cover topics such as setting up labs conducting experiments using graphs analyzing data writing lab reports incorporating technology assessing student learning teaching all ability students and much more This book enables science teachers to Understand how each strategy works in the classroom and avoid common mistakes Promote culturally responsive classrooms Activate and enhance prior knowledge Bring fresh and engaging activities into the classroom and the science lab Written by respected authors and educators The Science Teacher's Toolbox Hundreds of Practical Ideas to Support Your Students is an invaluable aid for upper elementary middle school and high school science educators as well those in teacher education programs and staff development professionals

**Teaching Science as a Decision Making Process** Herbert G. Cohen, Willis J. Horak, Frederick A. Staley, 1984 *Face to Face*, 1996 Classroom Activities in Thinking Skills, 1988 SciencePlus Teaching Resourcer Holt, Rinehart and Winston Staff, 1997 Scottish Educational Studies, 1974 Prentice Hall Science Explorer: Teacher's ed, 2005 *Discover Science: Science process skills book*, 1991 Science content helps develop the skills needed to understand how science works learn new concepts solve problems and make decisions in today's technological society *Implementing a Novel Computer-related Algebra Course* Abby Eisenshtat Robyn, 1992 *A Leader's Guide to Science Curriculum Topic Study* Susan Mundry, Page Keeley, Carolyn Landel, 2009-11-24 The Curriculum Topic Study CTS process funded by the US National Science Foundation helps teachers improve their practice by linking standards and research to content curriculum instruction and assessment Key to the core book Science Curriculum Topic Study this resource helps science professional development leaders and teacher educators understand the CTS approach and how to design lead and apply CTS in a variety of settings that support teachers as learners The authors provide everything needed to facilitate the CTS process including a solid foundation in the CTS framework multiple designs for half day and full day workshops professional learning communities and one on one instructional coaching facilitation group processing and

materials management strategies and a CD ROM with handouts PowerPoint slides and templates By bringing CTS into schools and other professional development settings science leaders can enhance their teachers knowledge of content improve teaching practices and have a positive impact on student learning [Bringing Technology Education Into K-8 Classrooms](#) Edward Britton,Bo De Long-Cotty,Toby Levenson,2005-03-02 Are published curriculum materials really standards based The authors answer this in unprecedented detail A must read for technology design and engineering educators William E Dugger Director Technology for All Americans Project International Technology Education Association If you enjoy teaching science because it engages students you will want to include technology and design This book provides everything you need to find curriculum materials that fit your situation Helping students become technologically literate as well as scientifically literate is a must in our world Senta A Raizen Director National Center for Improving Science Education NCISE WestEd Bring a whole new world of technology education into every classroom We live in a world where technological advances happen daily But technology is more than computers and electronic devices Technology encompasses every man made creation that meets human needs even a pencil or a book Technology education helps students design and make improvements in the designed world around us such as transportation systems manufacturing and biotechnology as well as many other fields This must have guide is the first independent review of curriculum materials for technology In [Bringing Technology Education Into K 8 Classrooms](#) authors Edward Britton Bo De Long Cotty and Toby Levenson provide a practical guide to the latest technology textbooks and integrated resources including technology and supplementary resources and descriptions of more than 100 informal resources The guide fully describes the strengths and weaknesses of each product s features by analyzing the technology topics covered types of technology design activities assessment strategies types of teacher support and much more [Bringing Technology Education Into K 8 Classrooms](#) includes An introduction to technology education and its importance for students today Complete information for choosing technology resources that meet district and classroom needs Practical analysis of how technology topics address standards Helpful tips on how technology activities help students understand a design process Featuring an easy to follow organization and sample pages from major products this resource will help all students become technologically literate [Applied Sociology of Sport](#) Andrew Yiannakis,1992 The first book to emphasize the need for relevancy in sport sociology research It helps students understand the theoretical basis for applied work provides examples of different types of applied research and knowledge transfer and suggests directions for future developments Twenty one papers by top professionals explain why an applied approach to sport sociology is important and how to develop such an approach [An Introduction to the Design and Behavior of Bolted Joints](#) John H. Bickford,1990 Offering a broad based review of the factors affecting the design assembly and behaviour of bolted joints and their components in all industries this work details various assembly options as well as specific failure modes and strategies for their avoidance This edition features material on the contact stresses between bolt head or nut face and the joint thread

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