

STR Science Teacher Resources

Student Friendly - Ready to Use

THANKS FOR VISITING MY STORE AND DOWNLOADING THIS PRODUCT!

STR Store: <http://www.teacherspayteachers.com/Store/Science-Teacher-Resources>

Click the icons to the right
join me on the web!



[Follow the Science Teacher Resources store](http://www.teacherspayteachers.com/Store/Science-Teacher-Resources) on TeachersPayTeachers to be the first to know about new products and freebies!

If you find this resource useful, I'd sincerely appreciate any rating/feedback you could offer! In the event that you have any questions or concerns, I'd sincerely appreciate the opportunity to address them prior to any negative feedback. Please [contact me](mailto:ScienceTeacherResources@gmail.com) anytime - no question too big or small! ScienceTeacherResources@gmail.com

Science Teacher Resources offers student friendly, ready to use products - both free and paid - and available for immediate download. New products added daily and weekly!



Copyright © 2012 Jeff Levine. All rights reserved. Products by Jeff Levine and Science Teacher Resources may be used for purchaser's own classroom only. Other than for the purchaser's own classroom, no part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author/publisher. For permission requests, contact Jeff Levine at ScienceTeacherResources@gmail.com.



Name _____ Date _____

Identifying Variables

For each testable question, underline the independent variable, circle the dependent variable, and list 3 controls. 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)
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?
Controls: _____
Hypothesis/Prediction: _____

2. How does the amount of light affect the growth of a plant?
Controls: _____
Hypothesis/Prediction: _____

3. How does the amount of oxygen in the water affect the oyster population?
Controls: _____
Hypothesis/Prediction: _____

Name _____ Date _____

Identifying Variables

For each testable question, underline the independent variable, circle the dependent variable, and list 3 controls. 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)
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?
Controls: _____
Hypothesis/Prediction: _____

2. How does the amount of light affect the growth of a plant?
Controls: _____
Hypothesis/Prediction: _____

3. How does the amount of oxygen in the water affect the oyster population?
Controls: _____
Hypothesis/Prediction: _____

FREE Identifying Variables Practice Worksheet

Included Resources

Resource Summary
Necessary Supplies/Materials List
Identifying Variables Worksheet
Identifying Variables Worksheet Answer Key

Resource Summary

Objective:

Students will be able to identify independent, dependent, and control/constant variables.

Notes:

This worksheet is designed as practice identifying variables, although it may be used as an introduction.

There are many other reasonable controls. Three common answers are listed on the answer key.

There may be various hypotheses/predictions.

Necessary Supplies/Materials

Identifying Variables Worksheet (included)

Identifying Variables Worksheet Answer Key (included)

Like what you see? Check out our store at

<http://www.teacherspayteachers.com/Store/Science-Teacher-Resources>

Questions? Please contact me at ScienceTeacherResources@ymail.com

No question too big or small – I'm happy to help!

Copyright Jeff Levine 2012, All rights reserved.



Name _____ Date _____

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: _____

Hypothesis/Prediction: _____

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

Constant/Control Variables: _____

Hypothesis/Prediction: _____

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

Constant/Control Variables: _____

Hypothesis/Prediction: _____

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

Constant/Control Variables: _____

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: _____

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: _____

Hypothesis/Prediction: _____

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: _____