

List of All Materials

Various Variables: Using Scientific Thinking to Solve Real-Life Problems

Materials are organized by the two major projects included in the unit:

- I. **Schoolmate Problem** (Lessons 1-8)
- II. **Jamboard Scenario** (Lesson 8-10)

*Every MA DESE-funded adult education program can access **Newsela** for free via a state account. Contact your program director to access articles from the site. **Wizer.me** requires a gmail account. All other educational sites should be automatically accessible or require only a free sign-up.

I. Schoolmate Problem (Lessons 1-8)

Instructional Slide Decks (contain explanations, examples, and directions for activities)

[Lesson 1 Slide Deck](#)

[Lesson 5 Slide Deck](#)

[Lesson 2 Slide Deck](#)

[Lesson 6 Slide Deck](#)

[Lesson 3 Slide Deck](#)

[Lesson 7 Slide Deck](#)

[Lesson 4 Slide Deck](#)

[Lesson 8 Slide Deck](#)

Additional Materials for Skill Instruction

VOCABULARY

- [Knowledge Rating Scale: Lesson #1](#)
- [Vocab Quadrant Charts: Lesson #1 \(STUDENT\)](#)
- [Vocab Quadrant Charts: Lesson #1 \(TEACHER\)](#)
- [Knowledge Rating Scale: Lesson #5](#)
- [Vocab Quadrant Charts: Lesson #5 \(STUDENT\)](#)
- [Vocab Quadrant Charts: Lesson #5 \(TEACHER\)](#)
- See additional resources in the “Resources for Building Science Knowledge” on p. 2 of this document.

ALPHABETICS

- VIDEO: [Introduction to Prefix In- and Im](#) (Lesson 4)
- [Independent Practice with In- and Im](#) (Quizziz.com)/ [Paper version](#) (Lesson 5)
- Extra Practice (Lesson 5):
 - [Negative Prefixes](#)
 - [Negative Prefixes \(higher level\)](#)

FLUENCY

- [Fluency Checklist](#)
- [Fluency Techniques](#) (TEACHER)
- TEXT: [The Latest Buzz](#) (from www.Readworks.com) (Lesson 2)
- TEXT: [The Types of Variables](#) (GLE 5/6; *Newsela) (Lesson 5)
- TEXT: [Science Variables](#) (GLE 9) (Lesson 5)
- TEXT: [What is a Fair Test?](#) (GLE 5; *Newsela) (Lesson 7)
- TEXT: [What is a Fair Test?](#) (GLE 7; *Newsela) (Lesson 7)

COMPREHENSION

- Sentence exercises: [Cause & Effect \(YOU DO\)](#) (Lesson 1)
- [Cause & Effect Quiz](#) (Wordwall.net) (Lesson 2)
- Paragraph exercise: [SHORT Cause & Effect Health Paragraph](#) (Lesson 2)

- Graphic Organizers
 - [Possible Causes Graphic Organizer](#) (Lesson 1)
 - [Cause & Effect Chart](#) (Lesson 2)
 - (Actual) [Causes of Your Health Issue - Graphic Organizer](#) (Lesson 3)
 - [Create Your Own Digital Webbing Tool](#) (Lesson 3; TEACHER)

RESEARCH/WRITING

- [Notes for Teacher: Using Health Websites with Research Groups](#) (Lesson 3)
- [Note-Taking Form-Health Issue](#) (Lesson 3)
- (Optional) VIDEO: [Avoiding Plagiarism](#) (Lesson 3)

DIGITAL LITERACY / SPEAKING & LISTENING

- VIDEO: [Inserting Text Boxes & Images Google Slides](#) (Lesson 3)
- [Student Google Slides](#) (Lesson 4-7)
- [Presentation Checklist](#) (Lessons 7 & 8)

OTHER

- [Reflections and Connections](#): Schoolmate Problem (Lesson 8)

Materials for Building Science Knowledge

TOPIC: HEALTH ISSUES

- Health Articles (by Group Topic) (Lesson 2) - These are from *Newsela and ReadWorks.
 - TEXT: [Attacks of the Nerves](#) (Stress/Anxiety)(GLE5; *[www.Readworks.com](#))
 - TEXT: [Everyday stresses can be harmful to your health](#) (Stress) (GLE 5; *Newsela)
 - TEXT: [News about Fast Food](#) (Obesity) (GLE5; *[www.Readworks.com](#))
 - TEXT: [Salt: The Rock We Eat](#) (Blood Pressure) (GLE6; *[www.Readworks.com](#))
 - TEXT: Diabetes: ['It's Just Part of Who I Am': A Teen Learns to Live With Chronic Illness](#) (Diabetes) (GLE7; *[www.Readworks.com](#))
- Health Web Articles (STUDENT COPIES) - These are from Internet sites.
 - TEXT: [Manage Stress](#)
 - TEXT: [Adult Obesity: Obesity Rises Among Adults](#) (CDC - GLE7)
 - TEXT: [Perceived Stress Scale](#)
 - TEXT: [Prediabetes](#)
 - VIDEO: [Signs and Symptoms of Diabetes, Explained | JUST THE FAQs](#)
 - TEXT: [What is High Blood Pressure?](#)

TOPIC: VARIABLES

- VIDEO: [Variables in Science: Independent, Dependent and Controlled](#) (Lesson 5)
- VIDEO: [Experimental Variables](#) (Edpuzzle.com) (Lesson 6)
- [Vocab Quadrant Charts: Variables](#) (TEACHER) (Lesson 5)
- [Matching exercise](#) (Wizer.me) (Lesson 6)
 - Students can login to Wizer.me using a gmail account.
- Optional additional practice:
 - [Identifying Variables in Science](#) (contextualized practice in Wizer.me; multiple-choice)
 - Students can login to Wizer.me using a gmail account.
 - [Experimental Design and Variables](#) (contextualized practice in Quizizz.com; multiple-choice)
- TEXT: [The Types of Variables](#) (*Newsela; GLE 5/6) (Lesson 5)
- TEXT: [Science Variables](#) (GLE 9) (Lesson 5)
- [Experimental Variables Jamboard](#) (Lesson 5)

TOPIC: FAIR TESTS

- VIDEO: [Fair Test](#) (Edpuzzle.com) (Lesson 7)

- TEXT: [What is a Fair Test?](#) (GLE 5; *Newsela) (Lesson 7)
- TEXT: [What is a Fair Test?](#) (GLE 7; *Newsela) (Lesson 7)
- Jamboard: [Intro Fair Test](#) (Lesson 7)
- Jamboard: [Fair OR Not?](#) (Lesson 7)

II. **Jamboard Scenario (end of Lesson 8-Lesson 10)**

Instructional Slide Decks

- [Lesson 8 Slide Deck](#) (Slides 5-7)

Additional Materials

- [Scenario Model & Template](#) (Lesson 8)
- [Presentation Checklist](#) (Lesson 8 & 10)
- [Jamboard Template](#) (Lesson 9)
- [Pre-Check for Jamboard Scenario](#) (Lesson 9)
- (Optional) [Peer Edit Checklist](#) (Lesson 9)
- [Unit Reflection](#) (Lesson 10)