

# List of All Materials

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

Note: The original unit plan included many Jamboard activities; however, Google shut down the Jamboard platform on December 31, 2024. PDF images of the original Jamboards are provided in the curriculum materials for reference. There are many Jamboard alternatives, such as Padlet Sandbox, that teachers may use to recreate the activities.

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 2 Slide Deck](#)

[Lesson 3 Slide Deck](#)

[Lesson 4 Slide Deck](#)

[Lesson 5 Slide Deck](#)

[Lesson 6 Slide Deck](#)

[Lesson 7 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](http://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)
- Jamboard PDF: [Experimental Variables](#) (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 PDF: [Intro Fair Test](#) (Lesson 7)
- Jamboard PDF: [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)