**List of All Materials**

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

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| Materials are organized by the two major projects included in the unit:1. **Schoolmate Problem** (Lessons 1-8)
2. **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. |

1. **Schoolmate Problem (Lessons 1-8)**

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

[Lesson 1 Slide Deck](https://docs.google.com/presentation/d/1_RFakUZkEwfDbteY8-DVavEusjUFZw2s/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) [Lesson 5 Slide Deck](https://docs.google.com/presentation/d/1qXcOIINcUlnGg__dfRHbRbCy-BoBKnOk/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true)

[Lesson 2 Slide Deck](https://docs.google.com/presentation/d/1bxR7UbG_f9K5vIiz0m93_QqOw1bTgb7X/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) [Lesson 6 Slide Deck](https://docs.google.com/presentation/d/1eo-lFVMsMEX83ffvN2Xuf-8IeCf-cj30/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true)

[Lesson 3 Slide Deck](https://docs.google.com/presentation/d/1bRHmQFYNsThEo_M1C7kE4CeCvN6WdbLb/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) [Lesson 7 Slide Deck](https://docs.google.com/presentation/d/1h1GKVFlLeQBG5TnYeGi2kh0zOHxbcmGj/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true)

[Lesson 4 Slide Deck](https://docs.google.com/presentation/d/1f8bpQxsClwxIpaELiTGrkwELSD0BfcKi/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) [Lesson 8 Slide Deck](https://docs.google.com/presentation/d/1LqB6GwKg9LO081GKt07CReo-x_1cjchN/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true)

**Additional Materials for Skill Instruction**

**VOCABULARY**

* [Knowledge Rating Scale: Lesson #1](https://docs.google.com/document/d/1ShwVXKLsE70mLkoqTJuQcqE2bTY0_0A-/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true)
* [Vocab Quadrant Charts: Lesson #1](https://docs.google.com/document/d/1mtT5dvKfqlos6JTQzWH3IlwG6RRpdBW6/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) ([STUDENT](https://docs.google.com/document/d/1mtT5dvKfqlos6JTQzWH3IlwG6RRpdBW6/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true))
* [Vocab Quadrant Charts: Lesson #1](https://docs.google.com/document/d/1X6V_DFhU96Glt4vFWs0t60QL7u5CIpoK/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) ([TEACHER](https://docs.google.com/document/d/1X6V_DFhU96Glt4vFWs0t60QL7u5CIpoK/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true))
* [Knowledge Rating Scale: Lesson #5](https://docs.google.com/document/d/1yokq44cDkLoiDscQsHpx6F63fxhIWm_J/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true)
* [Vocab Quadrant Charts: Lesson #5 (STUDENT)](https://docs.google.com/document/d/18z9pEeJhBQoyFPJlSnaKYYDYtXZZ_BdC/edit)
* [Vocab Quadrant Charts: Lesson #5](https://docs.google.com/document/d/1qDUKTh7VFHoIG-e2nyWMFD_OQ-4JD3Wb/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) ([TEACHER](https://docs.google.com/document/d/1X6V_DFhU96Glt4vFWs0t60QL7u5CIpoK/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true))
* See additional resources in the “Resources for Building Science Knowledge” on p. 2 of this document.

**ALPHABETICS**

* [VIDEO: Introduction to Prefix In- and Im](https://www.youtube.com/watch?v=RHwkHTf-J-s) (Lesson 4)
* [Independent Practice with In- and Im](https://quizizz.com/embed/quiz/643cc3f59e8fc5001e216015) (Quizziz.com)/ [Paper version](https://drive.google.com/file/d/1nTNtqh96Qbdonr_t1wa3bLWMrtyMUal3/view?usp=sharing) (Lesson 5)
* Extra Practice (Lesson 5):
	+ [Negative Prefixes](https://www.ecenglish.com/learnenglish/lessons/negative-prefixes#:~:text=Use%20im%2D%20prefix%20before%20words,but%20not%20i%20or%20u)
	+ [Negative Prefixes (higher level)](https://sharansc1accreditationblogblog.files.wordpress.com/2017/02/negative-prefixes-with-answers.pdf)

**FLUENCY**

* [Fluency Checklist](https://docs.google.com/document/d/19kdSGFlAnRro8JANeldCM6bMyOz6a6LQ/edit)
* [Fluency Techniques](https://atlasabe.org/wp-content/uploads/2019/04/FluencyTechniques-STAR_EBRI-Volunteers.pdf) (TEACHER)
* TEXT: [*The Latest Buzz*](https://www.readworks.org/article/The-Latest-Buzz/73e29f73-68c9-4480-844c-0f88d6195e55#!articleTab:content/)(from [www.Readworks.com](http://www.readworks.com)) (Lesson 2)
* TEXT: [*The Types of Variables*](https://newsela.com/view/ck9noonwz08l80iqjdvy4biag/?levelId=ck7ecxz7s18g914p7c6os3c3u) (GLE 5/6; \*Newsela) (Lesson 5)
* TEXT: [*Science Variables*](https://www.madison-schools.com/cms/lib/MS01001041/Centricity/Domain/4232/Science%20Variables%20Reading%20Passage.pdf) (GLE 9) (Lesson 5)
* TEXT: [*What is a Fair Test?*](https://newsela.com/view/ckf6wrdwy00073fl9lthoxzxi) (GLE 5; \*Newsela) (Lesson 7)
* TEXT: [*What is a Fair Test?*](https://newsela.com/view/ckf6wrdwy00073fl9lthoxzxi) (GLE 7; \*Newsela) (Lesson 7)

**COMPREHENSION**

* Sentence exercises: [Cause & Effect (YOU DO)](https://docs.google.com/document/d/1KyBDr8HmWMibiUYuj4pKW6PbbPpAf7Ee/edit) (Lesson 1)
* [Cause & Effect Quiz](https://wordwall.net/resource/55716840) (Wordwall.net) (Lesson 2)
* Paragraph exercise: [SHORT Cause & Effect Health Paragraph](https://docs.google.com/presentation/d/1bq6izD3JWwOks_JRI734qolfpJ8WbIGj/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) (Lesson 2)
* Graphic Organizers
	+ [Possible Causes Graphic Organizer](https://drive.google.com/file/d/166eA3Z9b0i7UTHi_C-iynCvsMXb7RjWK/view) (Lesson 1)
	+ [Cause & Effect Chart](https://documentcloud.adobe.com/gsuiteintegration/index.html?state=%7B%22ids%22%3A%5B%221xAxw1OLlFJ-KDMrkJ1U3e0K2xCXa-HDJ%22%5D%2C%22action%22%3A%22open%22%2C%22userId%22%3A%22116170938979122390519%22%2C%22resourceKeys%22%3A%7B%7D%7D) (Lesson 2)
	+ (Actual) [Causes of Your Health Issue - Graphic Organizer](https://drive.google.com/file/d/13sRVVfV2AvbLlu2EnwPGKpIK-JK-nG2R/view) (Lesson 3)
	+ [Create Your Own Digital Webbing Tool](https://www.readwritethink.org/classroom-resources/student-interactives/readwritethink-webbing-tool) (Lesson 3; TEACHER)

**RESEARCH/WRITING**

* [Notes for Teacher: Using Health Websites with Research Groups](https://docs.google.com/document/d/1C3cQME08Ht_mF0xIhWkukbpPmR9rWYnh/edit) (Lesson 3)
* [Note-Taking Form-Health Issue](https://docs.google.com/document/d/1J5WGa1-hYRZ3uxzpBgdXYCMz_5P2N8jy/edit) (Lesson 3)
* (Optional) [VIDEO: Avoiding Plagiarism](https://www.youtube.com/watch?v=PzZsButRaHs) (Lesson 3)

**DIGITAL LITERACY / SPEAKING & LISTENING**

* [VIDEO: Inserting Text Boxes & Images Google Slides](https://www.youtube.com/watch?v=Rd0gaJMW_Tg) (Lesson 3)
* [Student Google Slides](https://docs.google.com/presentation/d/1RGgZmetVvFy3XUYm99NDzKGqClcL62o4/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) (Lesson 4-7)
* [Presentation Checklist](https://docs.google.com/document/d/1pgJbFjuAsb4ebgc_d9RQhqi70KMk6G7z/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) (Lessons 7 & 8)

**OTHER**

* [Reflections and Connections](https://docs.google.com/document/d/1x_ar1cmqh7EN9u869bFTzd4MS-em4q3U/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true): 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*](https://www.readworks.org/article/Attack-of-the-Nerves/1bcbe8d3-648b-42ec-8feb-a849ce757942#!articleTab:content/) (Stress/Anxiety)(GLE5; \*[www.Readworks.com](http://www.readworks.com))
	+ TEXT: [*Everyday stresses can be harmful to your health*](https://newsela.com/view/ck9nooiw505sw0iqjhcd2zxs8) (Stress) (GLE 5; \*Newsela)
	+ TEXT: [*News about Fast Food*](https://www.readworks.org/article/News-about-Fast-Foods/2ab32f28-959d-4d85-bb82-5dc054512e79#!articleTab:content/) (Obesity) (GLE5; \*[www.Readworks.com](http://www.readworks.com))
	+ TEXT: [*Salt: The Rock We Eat*](https://www.readworks.org/article/Salt-The-Rock-We-Eat/265b71d3-eb62-40ee-aa00-8682db71dfeb#!articleTab:content/) (Blood Pressure) (GLE6; \*[www.Readworks.com](http://www.readworks.com))
	+ TEXT: Diabetes: ['It's Just Part of Who I Am': A Teen Learns to Live With Chronic Illness](https://www.readworks.org/article/Its-Just-Part-of-Who-I-Am-A-Teen-Learns-to-Live-With-Chronic-Illness/abcaa799-19ca-4c20-9025-755f8d64e03f#!articleTab:content/) (Diabetes) (GLE7; \*[www.Readworks.com](http://www.readworks.com))
* Health Web Articles (STUDENT COPIES) - These are from Internet sites.
	+ TEXT: [*Manage Stress*](https://health.gov/myhealthfinder/health-conditions/heart-health/manage-stress)
	+ TEXT: [*Adult Obesity: Obesity Rises Among Adults*](https://www.cdc.gov/vitalsigns/pdf/2010-08-vitalsigns.pdf) (CDC - GLE7)
	+ TEXT: [*Perceived Stress Scale*](https://www.das.nh.gov/wellness/docs/percieved%20stress%20scale.pdf)
	+ TEXT: [*Prediabetes*](https://www.cdc.gov/diabetes/basics/prediabetes.html)
	+ VIDEO: [*Signs and Symptoms of Diabetes, Explained | JUST THE FAQs*](https://www.youtube.com/watch?v=bblQecVzvxY)
	+ TEXT: [*What is High Blood Pressure?*](https://www.heart.org/-/media/files/health-topics/answers-by-heart/what-is-high-blood-pressure.pdf)

**TOPIC: VARIABLES**

* VIDEO: [Variables in Science: Independent, Dependent and Controlled](https://www.youtube.com/watch?v=J9kCgWAuB0Y) (Lesson 5)
* VIDEO: [Experimental Variables](https://edpuzzle.com/media/6006a1906b5c57423f0be4ab) (Edpuzzle.com) (Lesson 6)
* [Vocab Quadrant Charts: Variables](https://docs.google.com/document/d/1qDUKTh7VFHoIG-e2nyWMFD_OQ-4JD3Wb/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) (TEACHER) (Lesson 5)
* [Matching exercise](https://app.wizer.me/learn/9N3R0Q) (Wizer.me) (Lesson 6)
	+ Students can login to Wizer.me using a gmail account.
* Optional additional practice:
	+ [Identifying Variables in Science](https://app.wizer.me/learn/MDCMMD) (contextualized practice in Wizer.me; multiple-choice)
		- Students can login to Wizer.me using a gmail account.
	+ [Experimental Design and Variables](https://quizizz.com/admin/quiz/62922cf6852607001de29a43?source=quiz_share) (contextualized practice in Quizizz.com; multiple-choice)
* TEXT: [*The Types of Variables*](https://newsela.com/view/ck9noonwz08l80iqjdvy4biag/?levelId=ck7ecxz7s18g914p7c6os3c3u) (\*Newsela; GLE 5/6) (Lesson 5)
* TEXT: [*Science Variables*](https://www.madison-schools.com/cms/lib/MS01001041/Centricity/Domain/4232/Science%20Variables%20Reading%20Passage.pdf) (GLE 9) (Lesson 5)
* [Experimental Variables Jamboard](https://jamboard.google.com/d/10XT1Sg3X15RHVIowfcs1HkS9VvgBkH9vx02ogj_yNMg/viewer) (Lesson 5)

**TOPIC: FAIR TESTS**

* VIDEO: [Fair Test](https://edpuzzle.com/media/635dd01413fd9b413bc8faad) (Edpuzzle.com) (Lesson 7)
* TEXT: [*What is a Fair Test?*](https://newsela.com/view/ckf6wrdwy00073fl9lthoxzxi) (GLE 5; \*Newsela) (Lesson 7)
* TEXT: [*What is a Fair Test?*](https://newsela.com/view/ckf6wrdwy00073fl9lthoxzxi) (GLE 7; \*Newsela) (Lesson 7)
* Jamboard: [Intro Fair Test](https://jamboard.google.com/d/1gTNDDmOKBE1VcWzbVK12G-PIzFMMQ4rsQdoM8DUdPwU/viewer) (Lesson 7)
* Jamboard: [Fair OR Not?](https://jamboard.google.com/d/1q0NzLA6YCQUDqf8pWF8wi4OR81gDtbuaGlntU4d9DjU/viewer)(Lesson 7)
1. **Jamboard Scenario (end of Lesson 8-Lesson 10)**

**Instructional Slide Decks**

* [Lesson 8 Slide Deck](https://docs.google.com/presentation/d/1LqB6GwKg9LO081GKt07CReo-x_1cjchN/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) (Slides 5-7)

**Additional Materials**

* [Scenario Model & Template](https://docs.google.com/document/d/1tQqhLjoJ5myn2eY-gcM7LoFkXroM9oj6/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) (Lesson 8)
* [Presentation Checklist](https://docs.google.com/document/d/1pgJbFjuAsb4ebgc_d9RQhqi70KMk6G7z/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) (Lesson 8 & 10))
* [Jamboard Template](https://jamboard.google.com/d/1IHgXdyab8O0A9kXlHv0aGDHqykxY7sWKFe43BV98PL0/viewer) (Lesson 9)
* [Pre-Check for Jamboard Scenario](https://docs.google.com/document/d/1jDmS07j5NKvzc8Yk8UPlTrsWeEcXsx09/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) (Lesson 9)
* (Optional) [Peer Edit Checklist](https://docs.google.com/document/d/1RnCKXxR6fE3bxG253_dWJ9hHsIZXcZpF/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) (Lesson 9)
* [Unit Reflection](https://docs.google.com/document/d/1IiPIQm9acqV_RIpYJWEQ2VLooA_7IjxD/edit?usp=sharing&ouid=115764045519510480189&rtpof=true&sd=true) (Lesson 10)