STRONGMIND ᔆᴹ

StrongMind Teacher Resource Guides

StrongMind courses for grades 6-12 in English Language Arts, Mathematics, Science, and Social Studies* include a Teacher Resource Guide (TRG) that provides a robust set of flexible supports for educators for facilitating both synchronous and asynchronous** instruction. TRGs are embedded within the course in the Teacher View and tailored around the unique content of each course.

Teacher Resource Guide Components

General Course Resources	Course Activity-Specific Resources	Project-Based Learning Library

General Course Resources

Course Information

- Course title
- Grade level
- Course description
- Prerequisites
- Author & publisher Information
- Copyright date

Chemistry (1 of 2)
Teacher Resource Guide

Scope and Sequence → | Course Overview → | Syllabus →
Projects → | Interactives → | Supplemental Resources →
Bibliography → | | Teacher Graded Item Location →
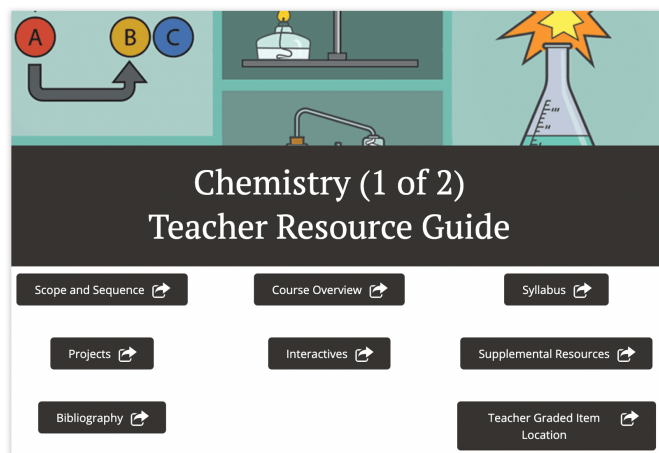
Course-Level Learning Objectives

- All TRGs list the course-level learning objectives, using the same language for both teachers and students
- Course objectives are summative in nature and written during the planning phase of hybrid course development to ensure alignment from top-to-bottom

Course Overview

Details unit-by-unit content, connections, projects, and discussion questions. Course overviews may vary depending on the type of course

Materials List

Organized by unit, the list includes all materials used in non-digital activities, such as printable graphic organizers or items for labs and projects

Academic Vocabulary

Arranged by units, vocabulary lists identify key words explicitly taught in units

Pacing Guide

familiarizes educators with the TRG and the ways in which it can be used to pace a course

Graphic Organizer Library

Details unit-by-unit content, connections, projects, and discussion questions. Course overviews may vary depending on the type of course

Bibliography

Lists sources for copyrighted content within courses

Technical Requirements

Includes the technical requirements and specification for successful use of the digital portion of a course

Etiquette Expectations and Literacy Skills

Provides sample expectations, tips, and skills needed for successful completing the course

Course Activity-Specific Resources

Organized by unit, supporting resources provide plans and guidance for self-paced asynchronous digital learning, synchronous teacher-led activities, and offline, independent student work. Resources include:

Learning Targets

Activity specific learning targets, which are tied to overall lesson and unit objectives.

Vocabulary

Academic vocabulary explicitly taught in each activity.

Activity Lesson Plans

- **Online** — Designed for self-directed, digital learning
- **Teacher-Directed** — Designed to be led by instructor and includes offline instruction activities
- **Independent** — Includes primarily offline instructional activities that can be done individually or in small groups independently of a teacher

Activity Preparation

Notes and links for teachers to consider as they prepare for instruction.

Materials Lists

Materials needed for instruction, including offline materials

Grading & Scoring Information

A resource to guide evaluation, especially for StrongMind digital assessments, with supports for offline activities as well

Language Arts 4 (1 of 2) Extension Activities

This page contains suggestions for additional writing activities that teachers can choose to use throughout the course. There is one suggestion per unit. Each new writing activity will help teachers facilitate more opportunities for teacher–student interaction and provide important guided feedback on students' writing.

Unit 1: Key Ideas in Informational Texts   +

Project-Based Learning Library

Designed for students to think critically, apply skills and concepts to real-world problems, and demonstrate understanding of complex course content not adequately measured through traditional assessments.

One authentic project per semester, lasting approximately two weeks	Includes explicit directions and plans for completing the project	Schedule and pacing, materials, and grading guidance included	Prioritizes critical thinking, problem solving, collaboration, and self-management

Mathematics 5 (2 of 2) Project Guide

There is one project in this course, in Unit 6.

Perimeter and Area of Two-Dimensional Shapes – Unit 6

Project Description

Students will create their own layout for a school campus, including a school yard, gymnasium, playground, school building, garden, and cafeteria. During this project, students will calculate the perimeter of an object when given the side lengths, and calculate the side length of a shape when given the perimeter and the lengths of the other sides. Students will also calculate the area of a shape when given the side lengths. They will have to calculate the length of one side when given area and the lengths of the other sides.

Project Objectives

- Find the perimeter of a rectangle with fractional or decimal side lengths using visual models and formulas.

Teacher Resource Guide ➤

Unit 1: Project: 3-D Models

Additional Model Ideas

Students may use whatever items are available to them for making their molecular models. Instead of marshmallows, students could use balled-up paper, fruit, Styrofoam, etc. They could even take regular sized white marshmallows, and use markers to color each marshmallow. Bonds can be made from pipe cleaners, toothpicks, chopsticks, straws, pencils, etc. If it is impossible for students to obtain suitable physical materials of any kind, drawings, or models designed using a paint program, would be sufficient.

*Other StrongMind courses include all the necessary teacher supports for supporting students online. They do not include the resources for synchronous instruction.

**The activities and project-based learning (PBL) included in the TRGs for grades 6-12 core courses were designed with a hybrid or blended learning environment with some in-person learning in mind. Most activities can be adapted for synchronous learning in a virtual environment using video conferencing tools.