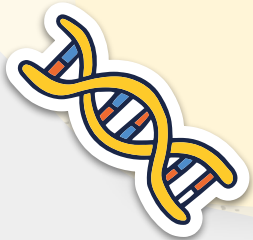


Grade 1 PLTW



Grade 1 - PLTW



**Light and
Sound**



**Animal
Adaptations**



**Light: Observing
the Sun, Moon and
Stars**

Grade 1 - PLTW



Light and Sound

All products that designers and engineers have made were created to meet a human need or want. One of the most basic of human needs is to communicate over a distance. In this module, students investigate light and sound, including vibration from sound waves and the effect of different materials on the path of a beam of light.

After building their knowledge and skills throughout the module, students follow the design process to sketch, build, test, and reflect on a device that uses light or sound to communicate across a distance.



Grade 1 - PLTW



Animal Adaptations

In this module, students are presented with the problem of preparing an ideal traveler for a visit to an extreme environment and designing the ideal shoe for this traveler to wear in this environment. Students look to plant and animal adaptations to guide them as they make choices about how to prepare their traveler. Students learn what it means for an organism to be adapted to its environment and how different adaptations can be categorized. Through various investigations, students explore an example of adaptations for protection, camouflage, food, and locomotion. They complete an inquiry investigation to explore how different beak shapes are best adapted for gathering different foods. They then investigate organisms that live in an extreme environment and document the variety of adaptations that each of these organisms display.



Grade 1 - PLTW



Light: Observing the Sun, Moon and Stars

In the previous Light and Sound module, students explored how light and sound travel over distances. The primary source of light on Earth is the Sun. The Sun is the star at the center of our solar system. Students learn that stars, including the Sun, generate their own light, while objects such as the Moon reflect that light.

Throughout the module, students document patterns as they observe the Sun, Moon, and stars. The ability to recognize patterns is an important scientific skill that researchers use to develop explanations of observations in nature.

Finally, students are challenged with the task of designing, building, and testing a device to protect students from ultraviolet (UV) radiation. Students analyze media to determine the peak times during the day for UV radiation and then design a cover for a playground structure.

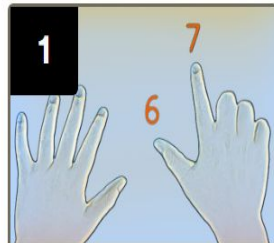


Grade 1

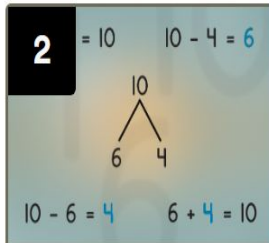


EUREKA MATH²™

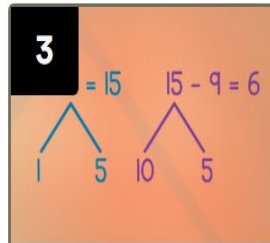
Year-At-A-Glance



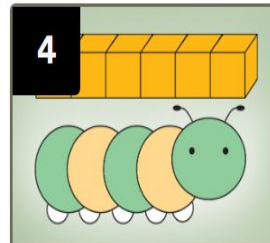
Counting, Comparison,
and Addition



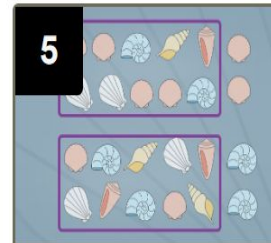
Addition and
Subtraction
Relationships



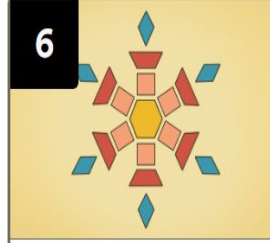
Properties of
Operations to Make
Easier Problems



Comparison and
Composition of Length
Measurements



Place Value Concepts to
Compare, Add, and
Subtract



Attributes of Shapes ·
Advancing Place Value,
Addition, and
Subtraction

FLUENCY * LAUNCH * LEARN * LAND

Link to parent brochure.

Eureka Math

A Parent Guide



Level 1 tells the story of composing and using different units, specifically the unit of ten. Students compose or decompose units of ten and use ten as a benchmark number.

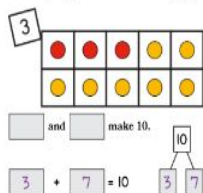


What does this image have to do with math?

What can you count here? If the server gave two of the yellow fruits to the guests at the table, how many would be left in the row?

Fluency

Fluency provides distributed practice with previously learned material. It is designed to prepare students for new learning by activating prior knowledge and bridging small learning gaps.



Launch

Launch creates an accessible entry point to the day's learning through activities that build context and often create productive struggle that leads to a need for the learning that follows. Every launch ends with a transition statement that sets the goal for the day's learning.



Learn

Learn presents new learning related to the lesson objective. This component of the lesson takes most of the instructional time. Different teaching styles vary and may include direct instruction, guided instruction, group work, partner activities, and interactive videos. The problem set, an opportunity for independent practice, is included in the learn.



Land

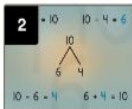
Land helps facilitate a brief class discussion to close the lesson. This time provides students with the opportunity to complete the Exit Ticket (a short independent assessment that close the lesson). Students are able to apply their day's learning, so that teachers can make instructional decisions.



Modules



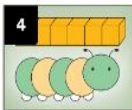
Counting, Comparison, and Addition



Addition and Subtraction Relationships



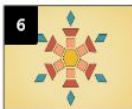
Properties of Operations to Make Easier Problems



Comparison and Composition of Length Measurements



Place Value Concepts to Compare, Add, and Subtract



Attributes of Shapes - Advancing Place Value, Addition, and Subtraction

Assessments

The module assessment is typically given when module instruction is complete. All of the assessments are formative because they are intended to inform instruction. These assessments assess proficiency with major concepts, skills, and applications taught in the module.

Module assessments are completed independently, with directions or problems read aloud as necessary.



Books

Students are provided with two math books.

1. Learn is students' companion text to the instruction they learn. It contains all the pages your child needs as their teacher implements each lesson.
2. Apply gives your child more practice with the components learned in class. There are three components in Apply that support students in deepening their understanding of the concepts covered in: Family Math, Practice, and Practice Partners.

Family Math

Family Math is a letter to your family that describes the major concepts in the topic. These letters are found in the Apply book. The words and phrases should be familiar to your child from the lesson. It includes visual supports that students can use to explain the concepts or strategies to their family. There are also practical at-home activities to extend your child's learning.