

Alternative Assessment—Unit 1.4

Models of Waves

Grade 7 Science

Overview

Students use provided materials to illustrate types of waves. They label the waves and the parts of waves.

Content Standards

GLE 0707.11.5 Compare and contrast the basic parts of a wave.

GLE 0707.11.6 Investigate the types and the fundamental properties of waves.

GLE 0707.Inq.5 Communicate scientific understanding using descriptions, explanations, and models.

MCS Learning Outcomes: Describe the properties and behavior of waves. Distinguish between transverse and longitudinal waves. Compare and contrast the basic parts of a wave.

Materials

Markers, yarn, glue, scissors, construction paper

Resources

See Tennessee Holt Science and Technology, Grade 7, TE p. 606 for a complete description of this assessment.

Assessment Rubric

Criteria	Advanced	Proficient	Below standard
Illustrations	Effectively uses materials to construct scientific representations of both longitudinal and transverse waves	Attempts to use material to construct two types of waves, but illustrations are incomplete or unclear	No attempt or illustrates only one type of wave
Labels	Appropriately uses scientific terminology in labels Shows evidence of understanding the types and parts of waves	Uses some relevant scientific terminology Shows some evidence of understanding the types and parts of waves, but there are errors	No use, or mostly inappropriate use of scientific terminology Shows little understanding of waves and contains multiple errors