

Grade 5 Science

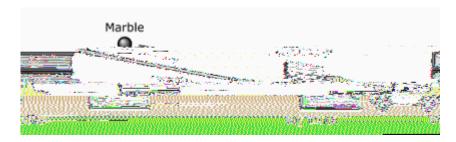
Short Constructed Response Scoring Guide

Spring 2023

Copyright © 2023, Texas Education Agency. All rights reserved. Reproduction of all or portions of this work is prohibited without express written permission from Texas Education Agency.

A class is using the setup shown to test this hypothesis.

The shorter the stack of books becomes, the shorter the distance the toy truck will roll.



What is ONE more piece of equipment needed to test the hypothesis AND how can the hypothesis be tested?

Look at the diagram carefully. Then enter your answer and explanation in the box provided.

Score: 2

The student needs to identify at least one more piece of equipment such as:

- a ruler
- a measuring tape
- a meter stick

AND

Include at least one idea for how the hypothesis can be tested:

varying the size of the book stack measuring distance traveled repeated trials

Score: 1

The student answers half of the question correctly.

Score: 0

The response is incorrect or irrelevant.

Grade 5 Science Short Constructed Response Scoring Guide

Score Point 1

Response 1

nce Visit you have to do if score than o

The response demonstrates a partial understanding of experimental design for scientific investigations testing one variable with a given hypothesis.

No attempt is made to identify a piece of equipment needed to test the hypothesis. The response only addresses the second element to include a valid idea for how the hypothesis can be tested: a description of repeated trials of the experiment ("That you have to do it more than once") as "it" can be seen here as referring to "testing" the hypothesis.

Response 2



The response demonstrates a partial understanding of experimental design for scientific investigations testing one variable with a given hypothesis.

No attempt is made to identify a piece of equipment needed to test the hypothesis. The response only addresses the second element to include a valid idea for how the hypothesis can be tested: a clear description of varying the size of the book stack without any incorrect information ("every test . . . add or take away some books. The first round they would start with one book and each test after that they would add one book at a time").

Response 3

The response demonstrates a partial understanding of experimental design for scientific investigations testing one variable with a given hypothesis.

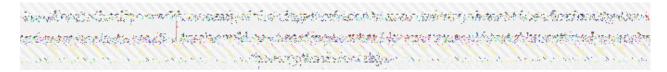
An incorrect identification of a piece of equipment needed to test the hypothesis is provided ("a notepad is needed to take notes"). Trangible (praper, plen, (per solh), etc.tda2bged)ed- (pren) 10 (sn)-3 (per joi.u)

Grade 5 Science			
Short Constructed	Response	Scoring	Guide

Response 4
The response demonstrates a partial understanding of experimental design for scientific

Grade 5 Science Short Constructed Response Scoring Guide

Response 3



The response demonstrates a complete understanding of experimental design for scientific investigations testing one variable with a given hypothesis.

a2.**97**Tm[