

SCIENCE: Sample Item**Questions 4**

This item has the following characteristics:

Strand: Energy, Forces and Matter

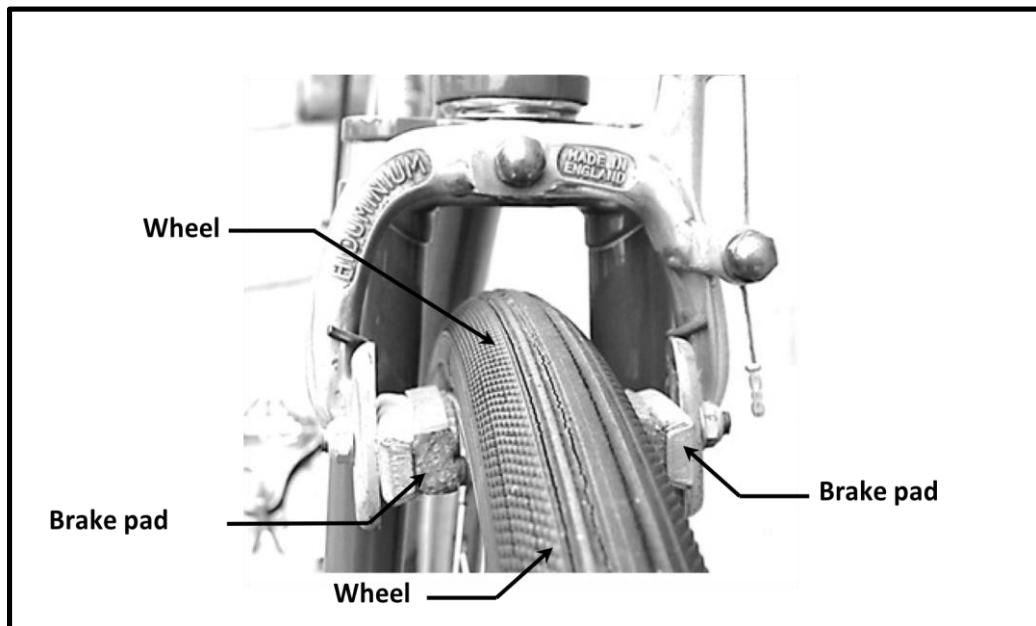
Objectives: Communicate scientific information
Investigate the effects of friction and how these may be reduced

Science Practice: ScP4. Analyzing and interpreting data
ScP6. Constructing explanations and designing solutions
ScP8. Obtaining, evaluating, and communicating information

Item Type: Order Match

About this Item Type: This item type asks students to fill in some blanks with some choices. All blanks must be filled in, but some of the choices may not be used, and no choice can be used more than once.

In the picture below, a bicycle's brake-pads squeeze both the sides of the wheel. When the brake-pads tightly squeeze both sides of the wheel, the bicycle will have a change in motion.



Place **two** of the following five choices in the blank spaces below so that the resulting sentence is correct.

Choices: speeds slows friction heat turns

The bicycle _____ due to the increase of _____ between the brake-pad and the wheel.