

Aspire.com

Ramp and Pulley: "Hairy and Pickle"

Name:

From the Internet Work page of the Mr. Hollis's Physical Science web site go to Chapter 7 Machines Inclined Plane and Pulley.

Page 1: Ramp – read the page. Then answer the following questions.

With your lab partner, generate a list of inclined planes which you have seen or used. Record this here

Page 2: Read the "story" about what Hairy and Pickle are doing.

Why do Hairy and Pickle have to use an inclined plane and a pulley? Write a one sentence explanation for each. Why can't they just do the work themselves?

Adjust the length of the ramp that Pickle has to use. Record your findings in the table.

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

From your chart of data, find the maximum effort (force) our crew member can sustain to push the stone up the inclined plane. What is it?

What is the length of this inclined plane?

Would this be the ideal length to use for the inclined plane? Why/why not?