

Physical Science; Chapter Resource File #22 Science Spectrum

MYTHBUSTERS: Force & Motion

Date: _____

Your job is to design experiments that test each of these myths:

MYTH 1: An object always moves in the direction of the force exerted on it.

MYTH 2: An object pushed by a person continues to move with constant speed until the person stops pushing on it.

MYTH 3: An object always changes its motion if there is a force exerted on it by other objects.

NOTE: It is more useful to design an experiment whose outcome would bust the myth. This is because even if you design many experiments whose outcome supports the myth, all you can conclude is that some experiments support it – they do not prove the myth. However it only takes one experiment whose outcome is different from the prediction to disprove the myth.

You have access to: carts, spring scales, masking tape, bowling ball, mallet, tennis ball, and cushion. If you would like something else, please ask your teacher.

Write up each myth separately.

For EACH myth, write the following in your notebook:

_____ Design an experiment whose predicted outcome might contradict the experiment. Use both verbal descriptions and pictures.

_____ Predict the outcome of the experiment, supposing that the statement was correct. Use the following verbiage:

_____ "IF [*myth*] is true AND [*your experiment*] THEN [*prediction*]"

_____ Perform the experiment, record the outcome, and make a judgment about the statement using this verbiage:

_____ "AND/BUT [*outcome*] THEREFORE [*myth confirmed/busted*]"

CONCLUSION (after all myths are tested):

1. Are there any myths you couldn't disprove? Does this mean these myths are **proven**?
2. For each of the myths you "busted," explain why people believe this myth anyway.

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