

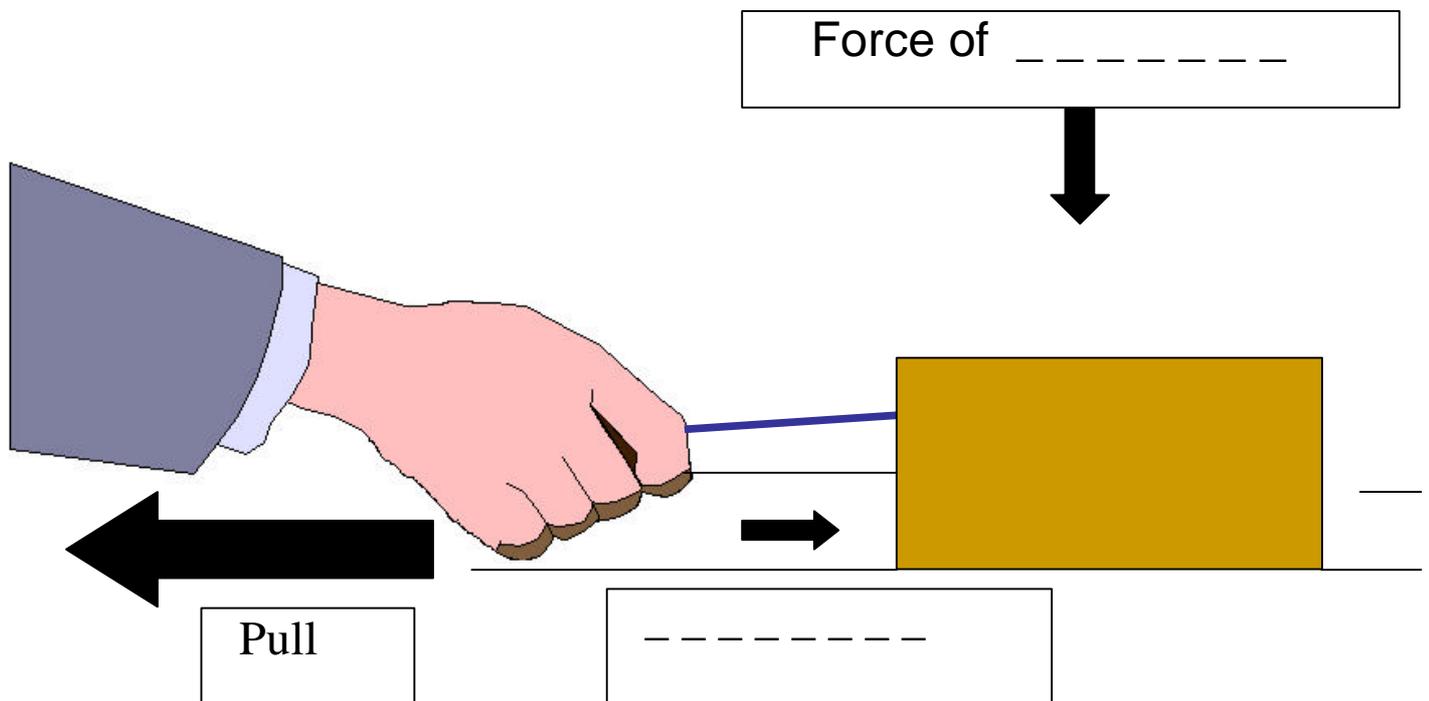
Name: _____

Date : _____

Investigating Friction

Our experiments have shown us that more than one force can act on an object and forces can act in different directions.

Think back to the experiment when we dragged a heavy box across different surfaces. Below you can see a picture of the box being pulled across the desktop. The force that is making the box move has been named. Can you name two forces that are slowing the box down?



Friction is the resistance that a moving object meets when it is in contact with another ob _ _ _ . It could be said to be a gripping force between two surfaces.

Friction slows m _ vement. It can also generate _ _ _ .

The amount of friction there is will depend upon what the surfaces in contact are made off and how hard they are pressed together.

In some situations it is desirable to have as much friction as possible. When is it important to have a lot of friction?

Name: _____

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Investigating Friction (continued)

In some situations you need as little friction as possible. When and/or where might you want as little friction as possible?

Put a 500g weight inside a box then measure how much force is needed to pull the box across the top of your desk?

Force needed to pull the box was _____

Can you think of ways to reduce the friction between the box and the desk, so that less force is needed to pull the box along?

Try different ways of reducing friction. Record your findings in the table below.

What I tried	Force needed to move the box

I found that the best way to reduce the friction between the box and the desktop was to
