

AGENDA
Investigation
Friction

In your journal explain what you understand about friction.



Figure 1

You can draw diagrams and give examples in your explanation.

Exit Goal

Write up the
Investigation
to the data
table.



Learning target: I can investigate how different surfaces affect the force needed to move a wood block

Question

How does the type of surface affect the force needed to move a block?



Figure 1

Hypothesis

Predict which surface will require the most force and which will require the least force to move the block. Give a reason.

Variables**Materials**

Wood block
+3 masses

4 materials of your choice
spring Scale

Learning I can investigate how different surfaces affect the force needed to
target: move a wood block

Diagram

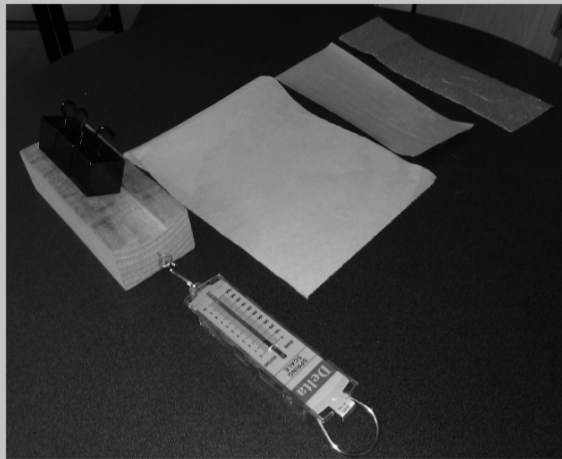


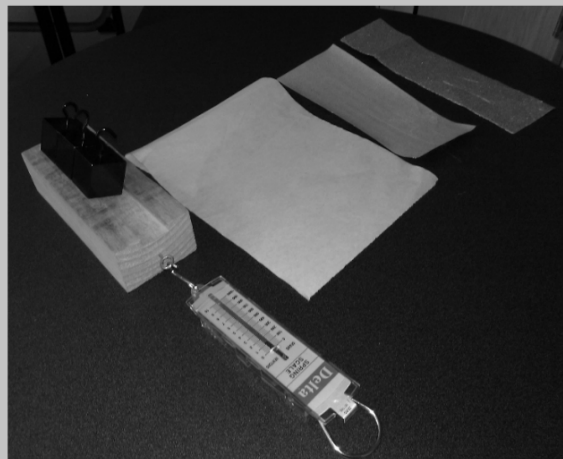
Figure 1

Learning I can investigate how different surfaces affect the force needed to
target: move a wood block

Procedures



Figure 1



Learning I can investigate how different surfaces affect the force needed to
target: move a wood block

Diagram



Procedures

1. Place the block on the _____ (1st condition)
2. While one person is holding the _____, the other person begin to move the block pulling carefully with the spring scale.
3. Have another person read the amount of Newtons of force need to move the block.
4. Record the force in the data table.
5. Repeat steps 1-4 for a total of 5 trials.
6. Place the block on _____ (2nd condition) and repeat steps 2-5
7. Place the block on _____ (3rd condition) and repeat steps 2-5
8. Place the block on _____ (4th condition) and repeat steps 2-5

Learning I can investigate how different surfaces affect the force needed to
target: move a wood block

Data Table



Figure 1

Force (N)	Material #1	Material #2	Material #3	Material #4
Trial 1				
Trial 2				
Trial 3				
Trial 4				
Trial 5				
Average Force (N)				

Learning I can investigate how different surfaces affect the force needed to target: move a wood block

