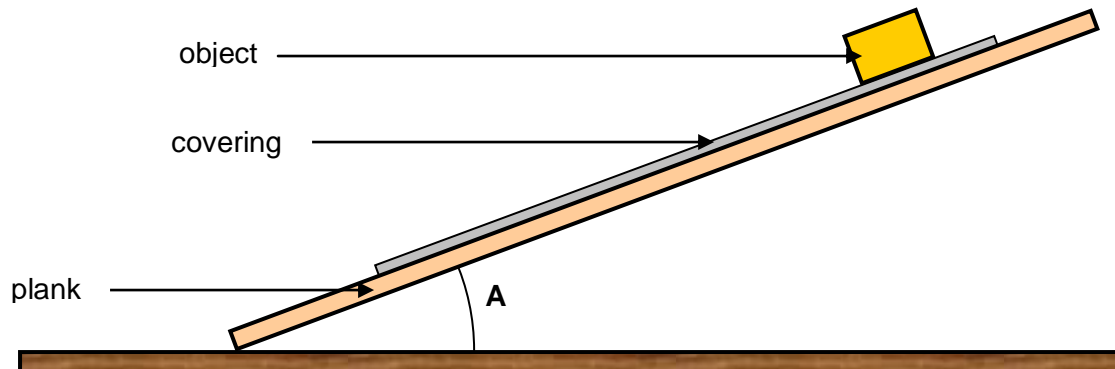


## Investigating friction

### AIM

The aim of this experiment is to investigate the different amounts of friction between various surfaces



### YOU WILL NEED

A plank, Various covering materials such as carpet, paper, metal sheet, plastic, grease  
Various objects such as wood and metal blocks A protractor

### WHAT TO DO

Put an object on a plank and then tilt the plank until the object just begins to slide down it. Record the angle of the plank with the horizontal.

Repeat for a series of objects and different coverings on the plank. Use some carpet off cuts, plastic, metal sheet, cardboard etc.

### CONCLUSIONS

Record your results in a table like the one shown here.

Surface	Object (material)	Angle (A) of slope when object begins to slide	$\tan(A)$
Wood	Wood block		

Note: The coefficient of static friction between the two surfaces is the tangent of the angle between the plane and the horizontal.