



Friction is a force

Background knowledge

Friction is a force that slows things down. When two surfaces come in contact with one another, there is a frictional force. The amount of friction depends on a number of factors. Rougher surfaces create more friction than smooth surfaces. It is a lot easier to ride a bike on a newly paved road than on a dirt trail. The weight of an object pushing on the surface causes friction. The amount of surface in contact with another surface also affects the amount of friction. For example, wheels reduce the amount of surface contact.

Science activity

Gail covered a ramp with different materials and measured how far a wooden block slid on each surface before coming to a halt. Here are her results.

Type of surface	How far the block slid after being pushed
sandpaper	50 cm
glass	500 cm
wood	100 cm
plastic	300 cm
cardboard	90 cm

Which is the smoothest surface, and which is the roughest surface?

.....

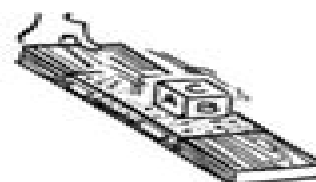
Explain how you worked out the answers to the question above.

.....

.....

Science investigation

Using a spring balance, test out the friction of various objects on a wooden ramp. Keep in mind that if you want to test the effect of different surfaces, the same object must be tested each time. Make sure to explain how you will use the spring balance to measure friction.



Cstephenmurray Worksheet Surface Friction

G.P. Shpenkov



Cstephenmurray Worksheet Surface Friction:

Friction Surface Phenomena G.P. Shpenkov, 1995-04-07 This monograph summarises results of research in some surface phenomena observed in mechanical treatment and friction In particular the book is devoted to urgent problems of the science of friction and wear and provides insight into the mechanism of the phenomena that cause on the one hand anomalously low coefficients of friction and wear the so called selective transfer and on the other dramatic damages of the surface layers during sliding hydrogen wear of metals The nature of metal interaction during sliding in selective transfer and hydrogen wear modes is analysed in detail Furthermore results of studies concerned with certain aspects of phenomena appearing in the process of influencing contacting surfaces and with detecting the relationship between the observed characteristics and behavior of investigated materials in the process of mechanical treatment and friction are presented The principle followed is to combine varied experimental facts physical concepts and investigation methods which at first sight appear to be unrelated and using this approach to determine general rules Chapter one provides the reader with a general understanding of fundamental surface phenomena which provide the background to their dynamic interaction in mechanical treatment and under friction Chapter two deals with the laws governing influence of mechanical effects on the surface The third chapter presents the fundamentals of the selective transfer theory under friction Other chapters deal with the possibilities of the Mossbauer electron spectroscopy method widely used in physics for solving tribology problems the influence of external electromotive force sources on contact resistance and friction pairs wear and hydrogen wear of metals under friction

Friction Rosemary Feasey, 2000 Providing a solution for teaching junior science New Star Science 4 books are aimed at the fourth primary school year This Pupil's Book provides practical tasks and activities with work throughout the topic and support for group activities The topic covered is friction

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