Friction

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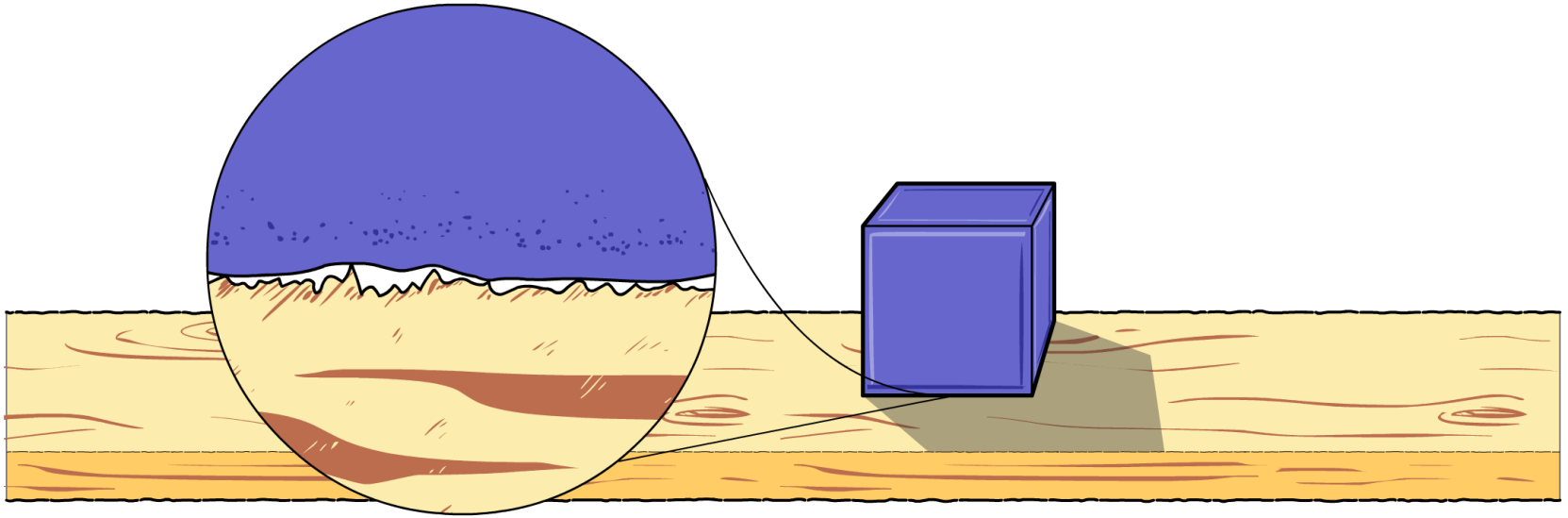
The ‘hills and valleys’ of the two surfaces snag as the objects rub against each other. The resisting force caused by the snagging of the surfaces is called **friction**.



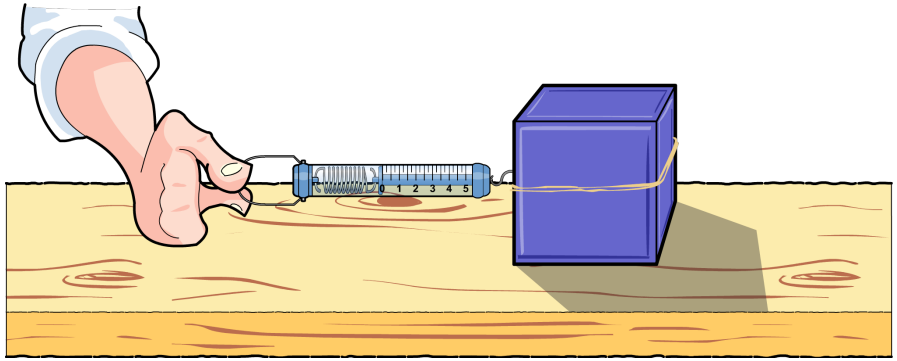
If the two surfaces are very rough, they will cause a large amount of friction. If the two surfaces are smoother, they will cause only a small amount of friction.

Friction

Two surfaces don't have to slide over each other to create friction. Friction occurs between an object and a surface when the object is stationary.

An object will only move when the force applied to it is greater than the friction between the object and the surface on which it is sitting.

- Would it be more difficult to move an object on a smooth or a rough surface?
- How could we find out?



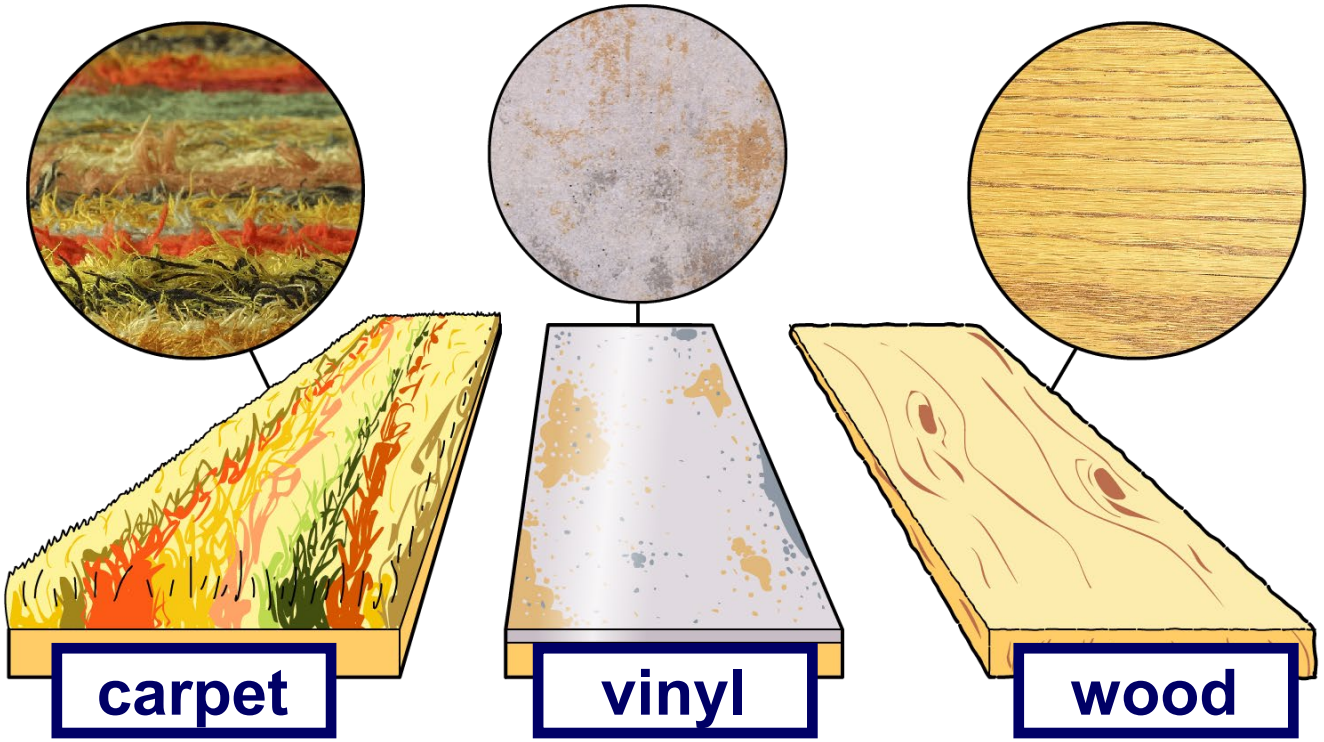
Friction

Which surface do you think will require the greatest force in order to make the object start moving?

Which surface has the largest friction?

Which surface has the smallest friction?

These are the surfaces that we will test.



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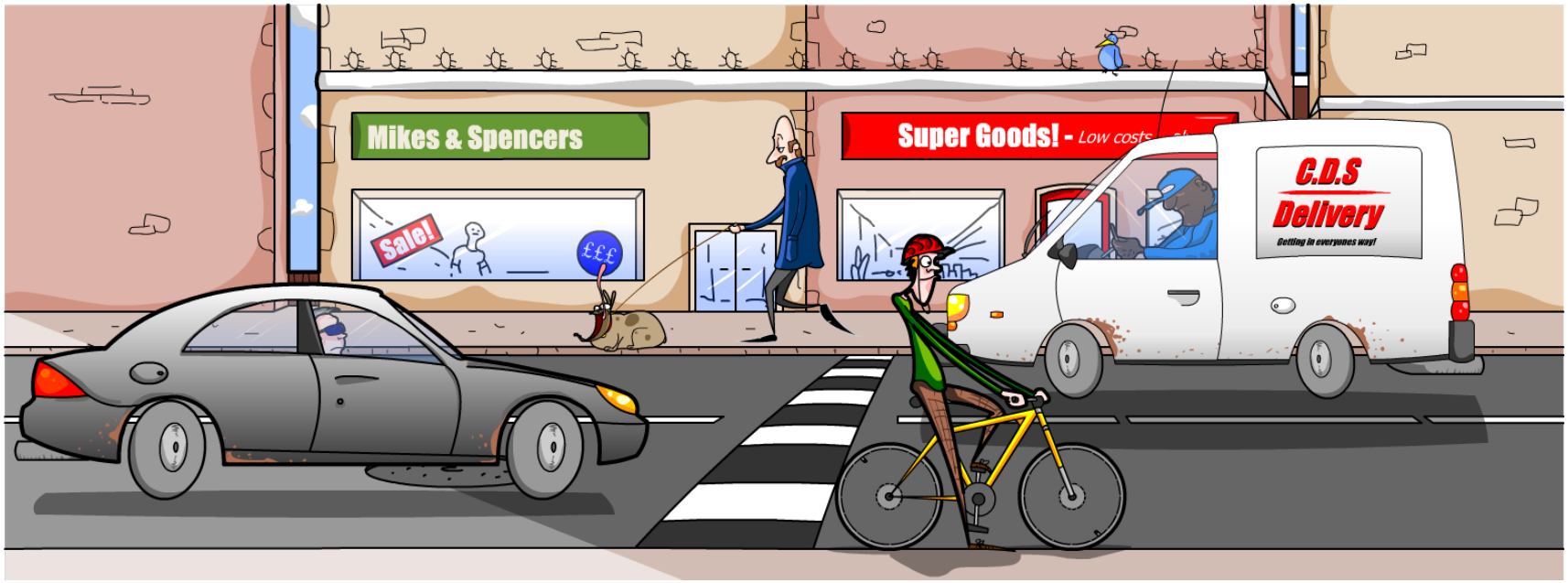
What type of road surface is needed to keep cars and bicycles from skidding?



Make a list of examples where high or low friction occurs. Describe surfaces that cause high and low friction.