

# Grandpa Goes Bananas

## Forces and Friction Quiz



1. Which of these statements about friction is true?
  - A It is a force which pushes things apart
  - B It is a force that only occurs on rough surfaces
  - C It is a force that occurs when two surfaces slide against each other

(Page down for answer)



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## Forces and Friction Quiz



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(Page down for next question)



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## Forces and Friction Quiz



2. If you pour oil onto a metal surface, the friction would ...

- A be reduced
- B be increased
- C stay the same



(Page down for answer)

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(Page down for next question)

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3. Rougher surfaces have...

- A greater friction
- B less friction
- C the same friction



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## Forces and Friction Quiz



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(Page down for next question)

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## Forces and Friction Quiz



4. Which of the following could be used to *increase* friction?
- A Squirting oil on the the rails
  - B Putting sand on the icy rails
  - C Blowing the horn



(Page down for answer)

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## Forces and Friction Quiz



4. Which of the following could be used to *increase* friction?

A Squirting oil on the the rails

B Putting sand on the icy rails

C Blowing the horn

(This little pipe drops sand on the rails if the wheels are slipping in wet or icy weather.)

(Page down for next question)





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## Forces and Friction Quiz



5. When two surfaces rub together, friction causes...

- A them to get colder
- B them to spring apart
- C heat to be produced



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## Forces and Friction Quiz



5. When two surfaces rub together, friction causes...

- A them to get colder
- B them to spring apart
- C **heat to be produced**

(Try rubbing your hands together really hard. Do they get hotter or colder?)

(Page down for next question)



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## Forces and Friction Quiz



6. Friction is useful to...

- A help the train slide along the track
- B help the wheels grip the track to drive the train
- C does not help at all

(Page down for answer)



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## Forces and Friction Quiz



6. Friction is useful to...

A help the train slide along the track

B help the wheels grip the track to drive the train

C does not help at all

(Without friction we could never move - our feet would just slip on the ground.)

(The End)

