

# FORCES – Revision Questions

Y7 science homework for 7F, 7C and 7R- Revision questions for their test on forces next week. Miss Ealat will be in her classroom every lunch time next week from 1:30 to 1:50 if anyone needs access to the internet to complete it, or if they need my help?

1. What are three ways a force affects an object?

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- 
- 

2. There are FIVE forces in this list. Circle the forces:

- upthrust
- tension
- kinetic
- normal reaction
- air resistance
- thermal
- gravity
- hydroelectric

3. What is a contact force? Give an example. \_\_\_\_\_

\_\_\_\_\_

4. What is a non-contact force? Give an example. \_\_\_\_\_



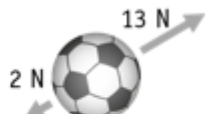
\_\_\_\_\_

5. What is the difference between plastic and elastic deformation?

\_\_\_\_\_

\_\_\_\_\_

6. Calculate the resultant forces:

|   |   |   |
|---|---|---|
|  |  |  |
| _____ N   | _____ N   | _____ N   |

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7. a) What is friction? \_\_\_\_\_

\_\_\_\_\_

b) Give an example of when friction is useful. \_\_\_\_\_

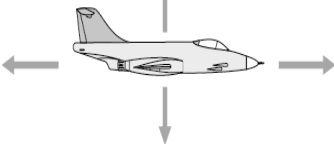
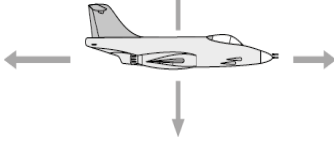
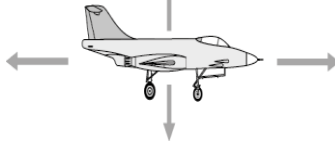
c) Give an example of when friction is not useful. \_\_\_\_\_

d) How can you reduce friction between two surfaces? \_\_\_\_\_

\_\_\_\_\_

8. Look at the pictures of aeroplanes below. Force arrows show the forces acting on each one, and the speed it is moving is also shown. For each one, say whether it will...

**speed up / slow down / stay at constant speed / stay stationary**

|  |  |  |
|--|--|--|
| <p>a)</p>  | <p>b)</p>  | <p>c)</p>  |
| <p>Currently flying at constant speed</p>  | <p>Currently flying at constant speed</p>  | <p>Currently stationary on the ground</p>  |
| <p>_____</p>   | <p>_____</p>   | <p>_____</p>   |

9. Jodie is doing an investigation into stretching elastic bands. She wants to find out if the amount the elastic band stretches is affected by the amount of force that is applied to the elastic band. She is not sure about what to predict.

a . Make a prediction for Jodie. \_\_\_\_\_

\_\_\_\_\_

b. What is the independent variable? What is she changing? \_\_\_\_\_

\_\_\_\_\_

c. What is the dependent variable? What is she measuring? \_\_\_\_\_

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d. What are the control variables? What is she keeping the same? \_\_\_\_\_

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