

HOME LEARNING ROUTE

Sponsored by:

VATTENFALL



Forces investigation

Key Stage 2 • Science

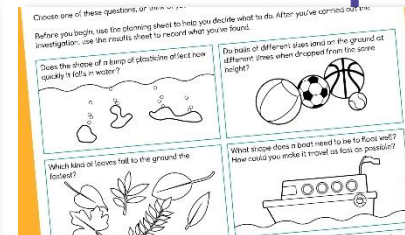
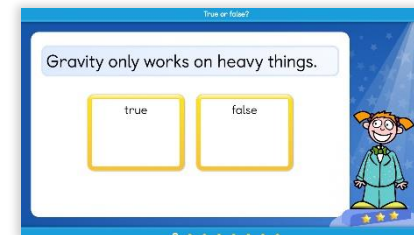
Learn about different forces and carry out a series of investigations at home. Remember to set up fair tests and to record your predictions, observations and results.

[Load the lesson »](#) [See more »](#)

To view these resources, you will need a Discovery Education Espresso subscription.

Preview of pupil steps:

1. In this challenge you will investigate forces, picking one or more of the investigations below. Before you get started, let's find out more about these forces.
2. Read about the different forces around us.
Which ones do you think are at work in your investigation?
3. Which forces might be involved in your investigation? Gravity? Friction? Air resistance? Water resistance? Watch the right video for your experiment to learn more about it and help you make a prediction.
4. Check the vocabulary below. Were there any words from the video or factfile that you need to check? Terms like air resistance, buoyancy, friction and water resistance are very important. So feel free to go back and re-watch the videos to understand these fully before moving on.
5. Try this true or false quiz about forces to test what you've learned!
6. Which one are you going to investigate? Before you start, have a think about which forces you think are involved and predict what you think will happen. Why do you think this?
7. Use this sheet to plan your investigation. Remember, to make it a fair test, only one thing should change in your experiment, e.g. the weight or size of the object used. Why do you think this is?
8. Once you've carried out your experiment, fill in the results on the sheet below. What do the results show? Is this what you predicted would happen? Why? What does this mean?
9. You've finished! Do the results help you predict what might happen in any of the other investigations below? Why not try investigating it to make sure.



What are home learning routes? Help children learn from home with these ready-made routes through Discovery Education Espresso content. The routes include video, text and glossaries for learning, as well as art, design and creative writing challenges for children to apply and demonstrate what they know.