*Streamlined shapes*

Which is the best shape for streamlining?

You can drop Plasticine shapes into wallpaper paste to find out the best shape for a

streamlined object.

|  |  |
| --- | --- |
| Apparatus  **• Wallpaper paste • Measuring cylinder**  **• Large beaker • Plasticine**  **• Metre rule • Balance**  **• Stopclock** | **Wash your hands after doing the experiment.** |

Planning and predicting

**1**  Which shapes will you test? Explain why you want to test these shapes.

**2**  Predict which shape will have the best streamlining, and explain why you think so.

**3**  How will you decide which shape has the best streamlining?

**4**  Write a method to describe how you will carry out your investigation. You need to explain:

* how you will make sure your investigation is a fair test
* what you will measure, and how you will measure it
* whether you will need to make any preliminary measurements
* how you will make sure your results are reliable.

**5**  Show your plan to your teacher before you start.

Recording your results

**6** Design a table to record the results of your experiment.

Considering your results/conclusions

**7** Which shape had the best streamlining? Was your prediction correct?

**8** Try to explain your results using ideas about particles.

Evaluation

**9**  Are your results reliable? Explain your answer.

**10** How could you improve your experiment if you had time to do it again?

**11** Are there any further investigations you could carry out to find out more about streamlining?