

Topic: Forces	Year 5 Age 9-10	Title: Aquadynamics conclusions
Working Scientifically Focus Review: draw conclusions and evaluate		Conceptual Knowledge Context Identify the effect of water resistance

Example

Children investigated how the shape of plasticine affected the speed it fell through water (see [TAPS lesson plan](#)).

Conclusion:

Our scientific explanation for this is:

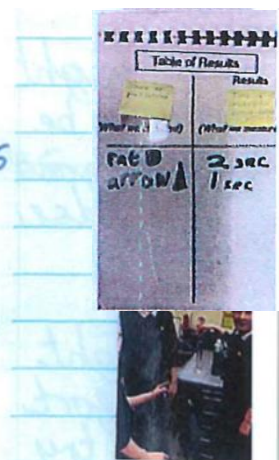
That the shape of an object determines how fast it will move due to the fact that a wider squarer object will receive more resistance whilst an arrow shaped one will have the water slide around it.

To make this investigation more scientific I would:

Use a stopwatch to time it exactly and make a bigger cylinder so the time difference would be clearer. Also I'd want it to be the same temperature water because it may

disturb the water.

We made it a fair test by using the same amount of water, same height, grom drop and the same amount of plasticine.



Children meeting the objective would be able to use their results to draw conclusions and make suggestions for how their investigation could be improved. A next step for these children would be to evaluate how effectively variables were controlled.