Trend Task:	d Task:				Pop Off	
Approach: One to one Access Task Year: 4 & 8   Focus: Predicting, observing and explaining results of a chemical reaction 2 film canisters, 2 lids (one with a hole), paper towels, 2 Alka-Seltzer tablets, 2 pairs of safety goggles, jug of water, tote tray 2 film canisters, 2 lids (one with a hole), paper towels, 2 Alka-Seltzer tablets, 2 pairs of safety goggles, jug of water, tote tray						
Questions / instructions:	% response			% response		
Preparation: Place jug of water, canister and tablet in the tote tray. Show the student the canister, tablet and water.	year 4	year 8	4. What do you think will happen this time? Prediction about lid with hole: lid stays on	<b>year 4</b>	year 8	
In this activity you will be doing an experiment and explaining why something happens. In this canister you will put the tablet and water, then you will put the lid			lid will pop off less strongly/slower lid will still pop off no prediction	5 (6) 16 (14) 51 (45)	17 (21) 7 (7) 37 (30)	
back on.			Prediction about contents:	00 (00)	00 (10)	
1. What do you think will happen? lid will pop off other prediction	13 (15) 80 (82)	29 (29) 70 (67)	any other response Hand out second tablet.	29 (30) 71 (70)	30 (19) 70 (81)	
Give student the safety goggles and ensure that they are worn. Teacher also to wear goggles.		()	Here is the fizzing tablet. I will put it in the canister, then put the water in and put the lid on.			
This is a tablet that fizzes			5. What do you see happening? contents fizz	<b>1</b> 4 (15)	12 (10)	
when you add water. I will put it in the canister, then fill it close to the top with water and put the			Contents defined as: gas and water gas water "something"	0 (0) 1 (0) 24 (23) 59 (56)	2 (1) 3 (3) 22 (32) 63 (50)	
lid on. Watch what happens.			Lid: lid stays on	6 (13) 0 (0)	8 (5) 0 (0)	
2. What did you see happening? tablet fizzes in water/water fizzes lid pops off	40 (36) 48 (64)	51 (49) 55 (56)	lid pops off no comment about lid	0 (0) 94 (87)	0 (2) 92 (93)	
3. Why do you think the lid popped off?	01 (00)	62 (70)	6. Why do you think this was different to the one without a hole in the lid?			
pushed off by bubbles, fizz	41 (21)	20 (15)	some water/fizz/gas escapes through hole (not "air")	49 (54)	60 (60)	
Now we will try this again, but this time the lid has a tiny hole in it.	- 8 (10)	- 4 (1)	<b>Total score:</b> 8–9 6–7	3 (8) 28 (16)	14 (17) 30 <u>(</u> 30)	
Show student the lid with the hole in it and the clean canister.			4–5 2–3	25 (29) 28 (29)	34 (34) 16 (12)	
Subaroup Analyses:			0–1	16 (18)	6 (7)	



## Commentary:

The total score for this task is based on the prediction and explanation components of the task, not the observational components. There was little change in performance between 2003 and 2007 at either year level.