Night and day			
Approach: One to one interview Let	<i>Level:</i> Year 8 & year 4		
<i>Resources:</i> Torch; world globe, polystyrene ball on stand.			
Questions/instructions		% responses	
This activity is about day time and night time. We will imagine this light is the sun, this globe is the earth, and this ball is the moor	1.	year 8	year 4
I want you to use this equipment to help answer my questions.			
1. First of all, I want you to use the light for the sun and the globe for the earth to show me how we have day and night.			
When you show me, try to explain how it works — why day and night happen.			
Torch held stable, globe r	otated	68	48
Explanation rated reasonably clear and c	orrect	57	39
Point to the equator and to New Zealand as you talk.2. Now show me and try to explain why it is hotter in these countries around the equator than it is down here in New Zealand.			
Demonstrate and explains sun shining more directly on e	quator	44	20
Explanation rated clear and c	orrect	28	14
YEAR 8 ONLY			
3. This time we will imagine that this ball on the stand is the moon. Can you show me, and explain to me, what happens when there is an eclipse of the moon? Use the equipment as you explain to me.			
Clear and correct demonstration and explan	nation	32	
Partial su	iccess	26	
If they don't know what an eclipse is, explain: It means you can see the moon go dark for a little while then come light again	l.		
4. Do you know about any other type of eclipse that you could tell me about?			
Clear and correct demonstration and expla	nation	7	
Partial su	iccess	8	