

Appendix 5 Machine makers equipment list

EQUIPMENT ITEM	QUANTITIES	LESSON		1	2	2	3	4	5	6	7	7	8
		1	2										
Equipment and materials													
A3 sheet of paper <i>optional</i>	1 per team							•					
A4 sheet of paper	1 per student												•
bag	1 per team										•		
bag of equipment collected in Lesson 7, Session 1	1 per team											•	
box of equipment for students to use in their machines	1 per class										•	•	
box of equipment to make the toy car move	1 per class					•							
blocks, small	5 per class							•					
blocks, small, or books of equal width (approximately 2 cm)	5 per team							•					
buckets filled with sand	4 per class											•	
card, large sheet to make a tube	1 per class					•							
card, small, or postcard	1 per class					•							
clipboard <i>optional</i>	1 per student											•	
dog treat	1 per class					•							
dominoes, set of, books or blocks (e.g. MAB flats)	1 per class					•							
equipment to set up scenarios <i>optional</i>	per class											•	
equipment to make a 'Dog treat feeder' machine <i>optional</i>	1 per student					•							
glue stick <i>optional</i>	1 per team												
golf ball	1 per team												
golf ball or hard-boiled egg	1 per class												
golf ball or tennis ball	1 per class												
golf ball or tennis ball	1 per team					•							
label for bags <i>optional</i>	1 per team												•

EQUIPMENT ITEM	QUANTITIES	LESSON SESSION		1	2	2	3	4	5	6	7	7	8
		1	2	1	2						1	2	
Equipment and materials													
marble	1 per team							•					
marking pen	1 per class										•		
masking tape, roll	1 per class	•						•					
masking tape, roll	1 per team							•		•			
gloves, pair <i>optional</i>	4 per class								•				
pen, with a lid	1 per team							•					
pen, with a lid	1 per class							•					
popsticks	10 per team						•	•					
popsticks, additional <i>optional</i>	10 per team						•	•					
rope or string, of at least 2 m	4 per class									•			
ruler	1 per team							•					
ruler	1 per class							•					
screen or box to hide 'Dog treat feeder' machine	1 per class	•											
table tennis ball	1 per team							•					
tennis ball	1 per team	•					•	•					
tennis ball	1 per class							•			•		
toy car	1 per team							•					
toy car	1 per class	•					•	•					
tube, cardboard or plastic	1 per team						•	•					

EQUIPMENT ITEM	QUANTITIES	LESSON		1	2	2	3	4	5	6	7	7	8
		1	2										
Resource sheets													
'Give the dog a treat' (RS1)	1 per student	•									•		
'Give the dog a treat' (RS1), enlarged	1 per class	•											
'Push pull pursuit' (RS2)	1 per student		•										
'Push pull pursuit' (RS2) additional copy <i>optional</i>	1 per student		•										
'Push pull pursuit' (RS2), enlarged	1 per class		•										
'Information note for families' (RS3) <i>optional</i>	1 per student	•											
'Information note for families' (RS3), enlarged <i>optional</i>	1 per class		•										
'Make it go!' (RS4)	1 per student			•									
'Make it go!' (RS4), enlarged	1 per class			•									
'Higher and higher' (RS5)	1 per student				•								
'Higher and higher' (RS5), enlarged	1 per class				•								
'Mini machine' (RS6)	1 per student					•							
'Mini machine' (RS6), enlarged	1 per class					•							
'Lunchtime' (RS7)	1 per team						•						
'Lunchtime' (RS7), enlarged	1 per class						•						
'Why won't it work?' (RS8)	1 per student									•			
'Why won't it work?' (RS8), enlarged	1 per class									•			
'Our Rube Goldberg machine' (RS9)	2 per team										•		
'Our Rube Goldberg machine' (RS9), enlarged	1 per class										•		
Teaching tools													
class science journal	1 per class	•	•					•	•	•	•	•	•
student science journal	1 per student	•	•					•	•	•	•	•	•
word wall	1 per class	•	•					•	•	•	•	•	•
team roles chart	1 per class							•	•	•	•	•	•
team skills chart	1 per class							•	•	•	•	•	•
design criteria poster	1 per class							•	•	•	•	•	•
role wristbands or badges for Manager and Speaker	1 set per team							•	•	•	•	•	•
Multimedia													
digital camera <i>optional</i>	1 per class		•										
digital device(s) to capture videos or photos	1 per class											•	
equipment to play a video	1 per class	•	•					•	•	•	•	•	•
photo or video of their Rube Goldberg machine	1 per team												•