



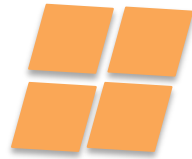
Topic	Surface area and rate of reaction	Level	For students aged 11-16
Outcomes	To calculate surface area To understand the term surface area To investigate how surface area affects rate of reaction and explain results using collision theory		

You want to wrap this present

Will you use the same, less or more wrapping paper if you wrap each DVD separately? Explain your thinking.



How does surface area affect the rate of reaction?

		Time taken for tablet to fully react in 100 cm ³ of water (s)			
Tablet shape	Tablet surface area (mm ²)	1	2	3	Mean
					
					
					



1. What do your results tell you about how surface area affects the rate of reaction?
2. Use your knowledge of collision theory to explain your answer to 1.
3. If you wanted the tablet to react even faster, what would you do?