

Reflection Explanation Task

ATL(s) being taught and assessed:

Thinking - Critical - Use models and simulations to explore complex systems and issues
(focus on modelling waves as particles or field disturbances)

Thinking - Critical - Evaluate evidence and arguments

Task

A marble hits a barrier and 'reflects'. Explain, using momentum, what is happening here (assume an elastic collision). Use this analogy to explain the law of reflection.



Formative assessment criteria:

Not there yet	Meeting expectations	Beyond expectations
	<ul style="list-style-type: none">- Explanation is well structured and leads to a conclusion.- Reflection is described correctly in terms of a wave model- Reflection is described correctly in terms of a particle model (impulse)- Visual aides are relevant and useful- Explanations are concise	