## Module 01 - Lesson 4 <br> Average Acceleration

Question 1: A giant eruption on the Sun moves solar material from rest to $600 \mathrm{~km} / \mathrm{s}$ over a period of 1 h . Find the average acceleration of the solar material.

Question 2: Starting from rest, a subway train first accelerates to $20 \mathrm{~m} / \mathrm{s}$, then brakes. Fifty seconds after starting, the train is moving at $15 \mathrm{~m} / \mathrm{s}$. Find the average acceleration of the train in this 50 -s interval?

Problem: A car moving initially at $50 \mathrm{~km} / \mathrm{h}$ begins slowing down at a constant rate, 50 m before the stop sign. If the car comes to a full stop just at the light, what is the magnitude of its average acceleration?

