

# Mathematics Awareness Month - April 2010

# Mathematics and Sports

Why can she bend  
it like Beckham?

Mathematics can answer this  
question and many others.  
[www.mathaware.org](http://www.mathaware.org)

$$C_x = \frac{F_x}{1/2 \rho v^2 A}$$

$$\nabla \cdot \vec{v} = 0$$

$$\rho \left( \frac{\partial \vec{v}}{\partial t} + \vec{v} \cdot \nabla \vec{v} \right) = -\nabla p + \mu \nabla^2 \vec{v} + \vec{f}$$

Photo: Eduardo Cavasotti | Image courtesy University of Sheffield and ANSYS, Inc.