

# WELCOME TO BECKFOOT OAKBANK MATHS DEPARTMENT



Where Maths can  
take you.

**Game Designer**

Video game designers use maths and coding to ensure that a player's input is decoded output, for example using algorithms using geometric shapes to create the video game characters and animations.

**Sports Scientist**

Sports scientists use biomechanical models in order to help both athletes and the public improve their health. Statistics is also used to prove whether or not a sports product is better or not.

**Engineer**

Engineers work in fields such as energy, transport, medicine and construction. They use maths to make calculations which help them to work out if a design is safe and if it will work as well as designed and if it is possible to make.

**Doctor**

Doctors use their knowledge of maths to interpret their patient's test results. They use probability and statistical analysis to decide what treatment their patient should be given. Doctors also calculate patient medicine they should be prescribed.

**Architect**

Architects use maths to design new buildings and the spaces around them. Using geometry to design a building's shape and mechanical engineering to design the building's structure, as well as understanding the mathematical properties of building materials under required loads.

Can you solve our problems? Click on the  
bees below! Each one will take you to a  
problem. HAPPY SOLVING!

