

### **Activity 3: Penalties – Extension ideas**

#### **EXTENSION IDEAS**

These videos and data could form the basis for the following further activities:

Pupils could analyse video footage or statistical data referring to penalties taken in professional football games in order to calculate the average success rates for strikers and goalkeepers in different leagues or teams.

Various 'cup' qualifying games have a series of penalties taken after extra time to decide the final outcome, hence this work could tie in well with a big event such as the World Cup.

Use data loggers or video footage and analysis software to determine the relationship between the speeds and the angles of projection required for success. This could be a cross-curricular project with Science and/or PE.

Explore reaction times and analysis of speed of the ball to determine how long a goalkeeper has before he must decide which way to move.

Use data loggers or video footage and analysis software to explore the real trajectories of balls being kicked.