



Sports Performance Analysis

SCHOOL: Eastcroft Park, Brookfield & Knowsley Sports Partnership

PHASE: Primary/Secondary

KEY STAGE & YEAR: Key Stage 1, Year 3, Year 9 & Teacher Training

CURRICULUM AREA: ICT/PE

LINKS TO PLANS/NC: CLC aims: 2, 3, 8 Obj: 9, 12, 14, EiC/CLC: SO2, 4/FA1
ICT Strategy: CLA 1, 4, 6, EL 1, 2, ED 1, 5, 6, FS 1, 3
EDP2 1a, b, c, d, 4, 6, 7
NC: ICT/PE

DURATION: 12 weeks @ 2 hours

LEARNING OBJECTIVES

- ✂ To develop a programme to support performance capture for PE across the Key Stages.
- ✂ To support teachers in the development of their skills, including the use of appropriate technology through training sessions .
- ✂ To teach basic gymnastics techniques to children in Year Three, including the ability to analyse their own performance and that of their peers.
- ✂ To develop an PE eLearning resource to support the curriculum across the Key Stages for Knowsley Schools in the first instance.

BRIEF

This project is based around physical education and performance analysis and involved a specialist teacher training programme, Year 9 performance analysis, video diaries, sports techniques and a Year three group spending alternative weeks using the Performance Centre (Coached by Knowsley's Sports Partnership Manager), ICT performance analysis using DartTrainer (As used in the Olympics and Commonwealth games) in the Space Bar and video conferencing opportunities. This work has been collated to produce a series of PE eLearning resources; beginning with gymnastics, soon to be accessible across Knowsley schools.

DESCRIPTION

All activities that take place in the Performance Centre or respective school sports hall was filmed either using static or portable DV cameras. Once captured the footage was streamed to the PCs in the Space bar to analysed and manipulated by the children using Dart Trainer Professional Suite.

During the course of the programme all children were given the opportunity to use a range of media technologies to demonstrate other features of the process, including software elements such as video capture and editing.

The finale of the programme included a video conferencing session between 'peer' groups to support virtual participation.

OUTCOMES/EVALUATION

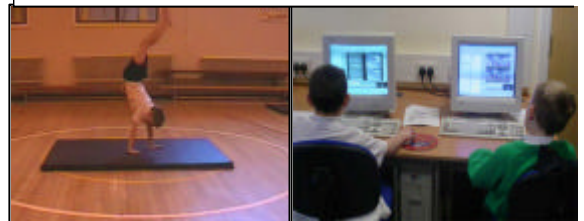
A website has been developed to provide support materials for sports techniques with a local focus. The eLearning resources will shortly be available across Knowsley. This is a resource that will provide teachers with materials to support curriculum delivery at Key Stages one, two and three, with a view to extending it to Key Stage Four.

Teachers in the Kirkby partnership have now received a total of three training sessions across Primary and Secondary schools, including a broader introductory session as part of the ICT safari 2004. This training will be cascaded further from autumn 04.

Extensions to this programme have included the use of mobile equipment, including a laptop loaded with Dart Trainer, DV Cameras and a variety of data logging equipment including timing mats, heart rate monitors and many more sensors to support extension activities in school for the PE curriculum .



Above left: Teacher training workshop using Dart Trainer. Above right: Year Nine Gymnastics Sports Performance Analysis Lesson.



Above left: Year 3 children practice gymnastic techniques. Above right: Year 3 children analyse the performance of their peers using