

Specialist

ENGINEERING

April 2008

A regular newsletter keeping Parents, the Community and Industry informed about the exciting opportunities at Hinde House 3-16 School

Engineering Specialist Status at Hinde House 3-16 School

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Y10 Bridge Building Day

In January the whole school took part in a Year team Super Learning Day. The Year 10 team took part in an engineering Bridge Building Day, where all the pupils worked together in their forms to design and build bridges following a rigorous programme. In the morning each form split into teams competing against each other.

Two industrial engineering ambassadors spent the morning assessing each team and chose a winner from each form.

The winners were chosen by the ambassadors because the team had followed the sophisticated criteria, worked well as a team, thought carefully about their design, the width of span of the bridge, and kept within the budget set. The winning team then lead their form in the final challenge - designing a bridge that would uphold the most weight.

Each bridge was tested with weights while the whole year group watched.

The atmosphere was electric. The winners were the Team from 10Bd. It was a fabulous day.

I would like to express my sincere thanks to the entire Year 10 team, but especially the Year 10 Year Leaders, Mrs Jan Ramsden and Miss Dawn Riley who worked tirelessly to enable the day to be such a success.

Julia Abel, Assistant Headteacher



We have continued to make engineering a real focus for students during the year. To this end, students have been involved in a wide range of activities both within and outside the school day. Activities included a whole school Super Learning 'Engineering Day', work with local universities, projects in the primary and secondary phases and Family Learning events including children and parents.

Many thanks go to all who participated and to Julia Abel for her tremendous effort in co-ordinating the wide variety of events.

Chris French, Principal

Sheffield Hallam University nominated Hinde House for the Going for Gold Award, for our outstanding work encouraging our female students to take an interest in Engineering. We were entered for the bronze award and then invited to Bradford for the awards ceremony where we would find out if we had been successful. To my surprise we not only achieved bronze, but the judges were so impressed with our work, they gave us the silver award. This is an honour and a great achievement for the school.



'Engineering a Better World' is a transition project involving primary and secondary pupils in an engineering project, where pupils design a racing buggy and a safety helmet for the racing driver to wear, for a race across the outback of Australia. Hinde House 3-16 School Primary Phase Year 6 pupils, did phase one of this project and designed solar buggies. Our Year 8 pupils did the second phase which was to design a safety helmet for the driver. We were then in a regional competition and the winning teams went to the awards day at Sheffield Hallam University, where the pupils had to do a presentation and display of their work and be interviewed by the judges. The buggy was entered in the bronze award category and the helmet in the silver category. We are delighted to say both teams achieved their awards. We are extremely proud of these young people who were outstanding and a credit to the school.

UK Intermediate Maths Challenge 2007

Year 9 pupils took part in the UK Maths Challenge in January competing against pupils from across the country. It is very difficult to score enough points to be awarded a certificate as not many are awarded. We are really proud to announce that Jonathan Tomlinson of 9Wn achieved a Bronze certificate. This was an exceptional achievement. Well done Jonathan!



'Engineering a Better World' awards day

On Saturday 10th March our Family Learning Project was launched. Over 400 parents and children from across South Yorkshire attended the launch, of which 85 were from our family of schools. Two coaches transported us into Sheffield City Centre where the families visited the Winter Gardens and met scientists from across the United Kingdom, exploring many different aspects of science and doing interactive activities. Then they went to Sheffield Hallam University to be involved in a family activity with Rex Gerrard, the children's author who wrote the children's books 'Brum' and 'Rosie and Jim'. The day was a huge success and is the start of many family learning opportunities for our family of schools. I would like to take this opportunity to thank all the staff who attended the launch and the teachers who are 'Family Learning Champions' and will continue to be involved in this project.



Family Learning Project



Primary Engineering



All our family of primary schools have now been involved in Primary Engineering activities. On Mondays Mrs Abel, Director of Engineering Specialism, teaches engineering to pupils of KS1 and KS2, developing their awareness of engineering, helping to develop the understanding of what engineering means in everyday life and so helping to raise attainment and developing opportunities in an engineering context. It is wonderful to see the younger pupils actively learning about engineering and being able to talk to their parents, teachers and friends using key words connected to engineering and preparing them for their futures.



Welcome to our engineering governor

John Bramah, Director of WFE Engineering, is our engineering governor. We were delighted when John came to see 'engineering in action' in our secondary phase. John saw Year 7s enjoying an engineering in Science lesson and a Women in Engineering project with Year 9 girls. We welcome John and look forward to his involvement in school. John also came into school to work with Year 9 and Year 11 pupils during the Engineering and Science week in March. He demonstrated how hydraulics work and how they have a role to play in engineering and everyday life.

