Computer lecturer at Weston College, Jason Hill, who supported a workshop where the girls made robots, said technology has opened the world not just along gender lines, but also to any individual with a creative idea.

He said : " Computing as a subject is still dominated by men, but girls shouldn't be discouraged. It is not a subject for geeks. It is a subject for anyone with an idea.

Thanks to the ease of programming and technology, you don't need a multi million pound company to produce an APP . You can work from your bedroom.

You can be hugely successful and never leave the house.

That is what is amazing, what huge things can be done with only the very smallest amount of investment. It is success open to all."

Broadoak Skirting Science ambassadors helped guide this year's students around school and were at many of the workshops in 2013.

Charlotte James, 14 said: " Skirting Science certainly changed my opinion. I am going to be honest here.... I hated science, but it has made me realise what kind of science is out there. More importantly that it can be interesting and fun, not something horrid."

Ashli Lawrence , 15 , who has plans to study medicine or engineering said: " I was already interested in science but I didn't know how many science careers are out there. It was a really interesting thing to do. It didn't change my mind just made me realise I had made the right decision."

Nih Nguyen, 15, who plans to study psychology said attending Skirting Science had confirmed her career path, but opened up other opportunities within in. " The workshops took science out of the lab.. It made the real world for us. I know what I want to do,but now I can explore other avenues within psychology."

The girls who are eagerly awaiting their science results, say that the ratio of boys to girls in the Broadoak science classrooms is a healthy 50/50 .

Head of science at Broadoak Clare Austin.

"The day will be a success if at the end of it students go away just having experiences and with a new view of science. If they can think "I didn't know you could do that" ... I didn't know that existed... That would be worthwhile."

The college has hosted the event for the second time, so many of the girls who took part last year became ambassadors for this.

" They are so excited to be involved again and it is marvellous that they can pass on their enthusiasm from last year. They talked about it for weeks afterwards last year, which inspired us all."

Ms Austin, who has been teaching science for 14 years, says that girls are now more open and positive about STEM subjects, but there is still progress to be made. " Skirting science shows them a pathway into scientific careers that many of them never even knew existed. The workshops are full of experts in a huge range of scientific careers and showing off amazing ideas. And the girls can see that being an engineer does not mean you cannot be young, attractive and dress well."

The most popular Skirting Science workshop was the science of crime, possibly inspired by television drama, but other less high profile scientific avenues, were also explored.

"There was a time when girls knew about medicine and oceanography and that was essentially it... But now they can see women working in nuclear facilities, engineering . The paths are there and open , " says Ms Austin.

The college , which has recently appointed a STEM co-ordinator, is pushing ahead with a number of initiatives to encourage science not least a (top secret ) for now trip to one of the world's most exciting scientific locations.

Nadya Anscombe, the key note speaker delivered the Skirting Science introduction. She is a freelance science and technology journalist and showed the 250 girls the huge range of science subject matter she has written about.

She entertained the hall with just a small taste of the articles she has written : everything from harnessing solar power on the moon and beaming it back to earth through to how the receding snow line is creating problems for the wolverine. " I love asking questions. My lecturers hated me. I have the best job in world. But in my job I spend all day taking to men so that needs to change. And we can change the male dominated industry. "