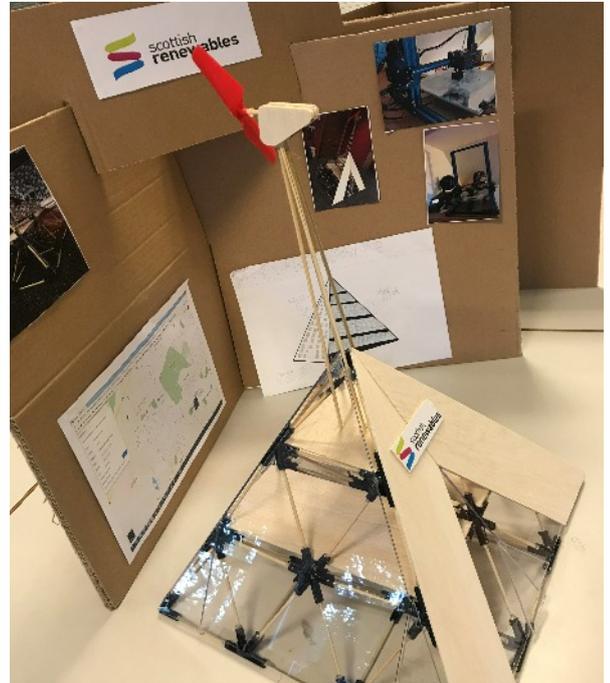




Block 2: PEF Funded

Impact, Evaluation and Reflection



Block 2: January- March

Aims:

1. To engage families in skill-based learning and raise their 'STEM Capital'.
2. To fully support young people and their parents to build and develop skills for life, learning and work, building links with local business partners.
3. To encourage parents to engage with their child's learning and see the value of STEM education.
4. To create a community between staff, parents and pupils.

Targeted Pupils:

- Pupils who have been identified within our attainment gap SIMD 4-7.
- Pupils out with STEM Academy
- EWO Identified Families- Families who would benefit from working together.
- To encourage more girls into STEM.



Parents in Partnership

STEM Vocational Programme

Analysis of Pilot Block 2 Group :

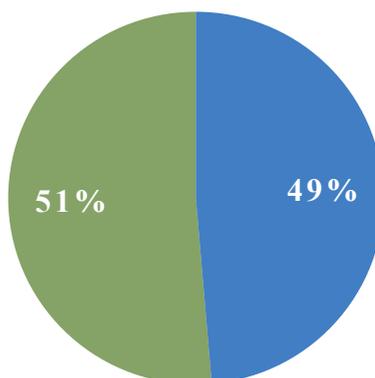
The following data has been gathered from 45 different families, some with more than one participating pupil and parent. The data was gathered through an impact questionnaire and several Google Forms throughout the programme. Each family has successfully completed the programme by attending 5 sessions and the celebration event. They have all gained a CREST Discovery Award.



Pupils within STEM Academy:

One of the programmes aims is to involve pupils out with STEM Academy. This will give pupils exposure to STEM Activities and build their problem solving skills within a practical context. In turn, this will raise their STEM Capital and their awareness of STEM career pathways. By involving parents, this will improve their awareness and encourage positive STEM destinations for their child.

- Not in STEM Academy
- Child in STEM Academy



Testimonies from parents regarding their view on the value of STEM:

“The course illustrated the need for an understanding of STEM skills in other areas of life that are not directly obvious to my child.”

“STEM affects every day life. I really want my child to see what career prospects there are for females in STEM fields and Miss Elliott is a great role model.”

“The programme highlighted how critical thinking and different subjects can be used and like to the real world.”

“It showed the need for an understanding of STEM skills in other areas of life that are not obvious STEM to my child.”

“Most definitely. It allowed us to develop and explore skills required for working on projects which can also be applied to all other areas of the curriculum.”



Parents in Partnership

STEM Vocational Programme

Impact Questionnaire

The impact questions will be used to make changes for improvement. This data has been gathered highlight if there has been any real changes in the parents perceptions of STEM and how the programme has changed family relationships.

Recommendations

Would you recommend the programme to other parents at Larbert High School?



How does the course compare to your initial thoughts and information given?

"I expected it to be quite tutorial/ sitting learning. It was not. It was challenging and involved lots of practical work, planning and research. It was a great way of working together with my child."

"The course was much better than expected and we enjoyed every minute of it."

"Lots of fun and very relevant and educational."

"The delivery of the course was excellent. Not sure it could be improved much!"

The delivery was fantastic. We loved Miss Elliotts enthusiasm!"

"The course was delivered in a very appropriate and professional manner at a level suited to pupils and parents! Excellent explanation and communication both within class and any queries were answered promptly."





Relationships

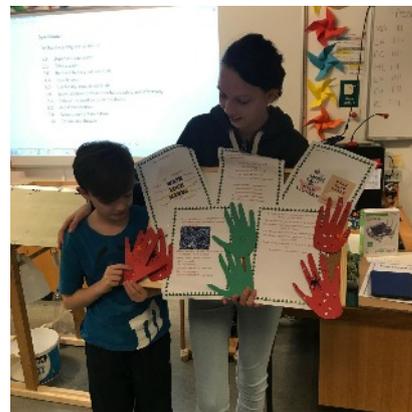
Families were asked to comment on whether the STEM family learning programme has impacted their relationships with their child.

“My daughter is telling me more about her learning because she is more confident and I have a better understanding of the subject.”

“Now, I take more time to listen to his ideas and thoughts. I have learned to take time to explain in detail rather than just saying if it's wrong or right.”

“I loved spending time with my daughter on our own. We carry the conversations on in the house and really enjoyed working together without distractions.”

“We are talking about the project outside school which is great as I joined the programme to encourage my youngest that STEM is fun!”



“We openly debated ideas and made considered decisions; through the tasks we both taught each other some new skills and worked out problems together. As for your own role in delivering the sessions; I thought you handled this extremely well. You were clearly aware of the different levels of ability and confidence of the class (pupils & parents) and handled this well. I also liked the way you let the support pupils interact and advise the class teams. It was a really good teaching balance.”

“I liked that Miss Elliott, introduced the tasks, topics, but gave us plenty of time for research, design and development. She went round the class and reviewed our work, and gave us feedback, advice and encouragement whilst allowing us to make mistakes. Her introduction was engaging to both student and parent whilst never being patronizing to either. Overall Miss Elliott built a fun environment to learn in and was always extremely approachable inside the lessons and when you needed some help via Google Classroom.”

“We really enjoyed the problem solving as a family. We also enjoyed working together and being able to impart our knowledge to Erin about our experiences in certain conditions and how we tackled them. It was good to understand better how Erin would work at school and how she would tackle problems and work through them. Miss Elliott was there as a support and showed great enthusiasm about this workshop. She also made it easy to understand the objectives of the exercise and helped us to understand better the reasons behind the actions”



Parents in Partnership

STEM Vocational Programme

STEM Capital- Discussions within the home.

STEM capital can be defined as the sum of all the STEM-related knowledge, attitudes, experiences and resources that an individual builds up through their life.

Example:

Participation in out-of-school STEM learning contexts.

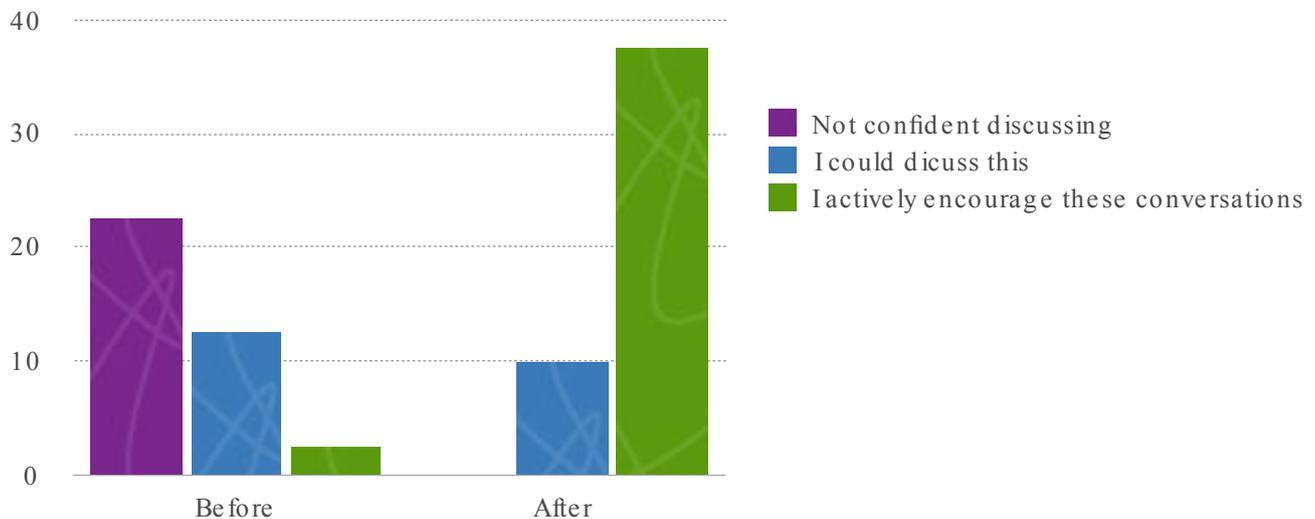
Family STEM skills, knowledge and qualifications.

Engagement with STEM in the real world, newspaper articles, news, gaming

Exposure to STEM out with school

The families completed at the beginning of the programme if they were confident in discussing possible STEM career opportunities to their child (results below):

How confident is your knowledge of explaining STEM careers to your child?



Before the programme, the results show that 22 out of 40 families felt that they could not have these conversations and share knowledge with confidence. Throughout the programme, tasks were related to STEM careers and this was an area that was emphasised.

By the end of the programme, there was an overwhelmingly positive result where all families said they would either actively encourage these conversations and would discuss this. After the programme, parents have said they would encourage their child to follow a STEM Pathway and can see the value in STEM Education.

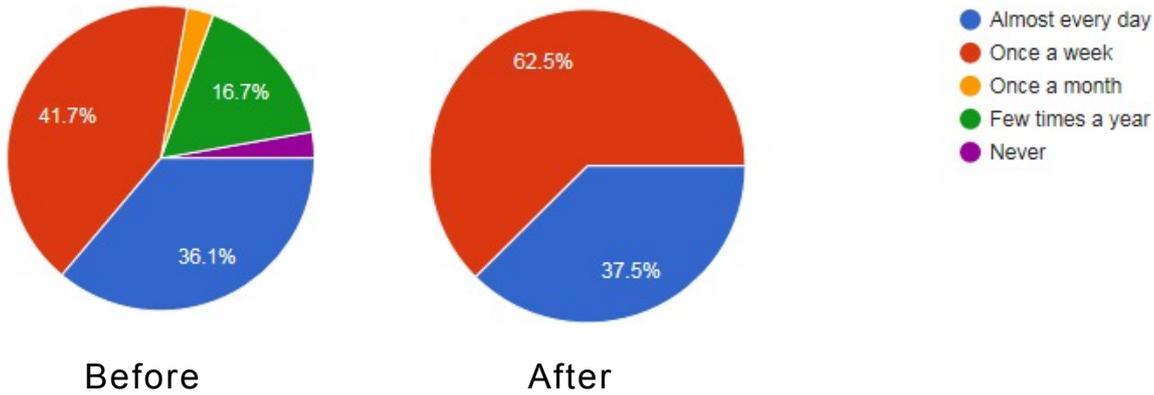




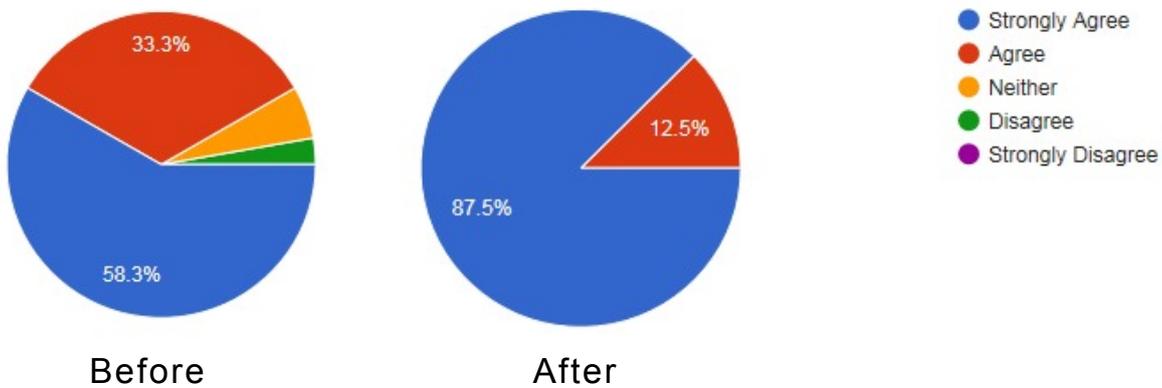
STEM Capital continued.

The results below show the difference between before and after the 5 week block sessions.

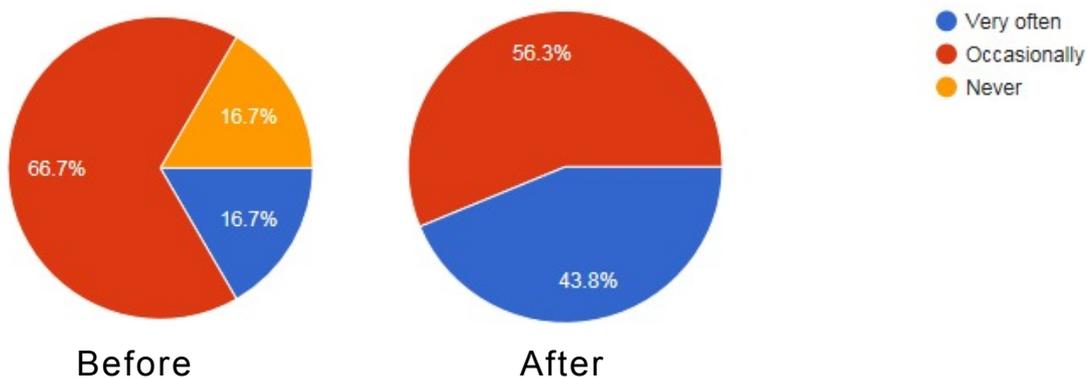
When you are not in school or work, how often do you speak about STEM with others



I think STEM is interesting.



I actively engage in STEM Activities / challenges / news or events.



Twitter Feedback



Mrs McMinn

Replying to @MissElliott0

Following

We were blown away by the hard work and imagination that went into every model, each one deserved a prize! It was a pleasure to see/hear the impact of this project on families who demonstrated great teamwork and talent.

2:17 PM - 11 Oct 2018

Follow

Emma Gargan

Replying to @MissElliott0 @LarbertHigh and 3 others

Thank you so much for your time and guidance. It had been an excellent learning experience

2:03 PM - 11 Oct 2018

1 Retweet 5 Likes



1



5



Follow

MrGoodart

Replying to @MissElliott0

and 3 others

Following

What wonderful memories all the families made. There's nothing like focused, constructive time together.

10:11 PM - 11 Oct 2018

Retweet 4 Likes

1



4



Evonne

Replying to @MissElliott0

and 3 others

What a wonderful event to complete our STEM programme!! Huge thanks Miss Elliott for your support and encouragement. Delighted to hear the girls speak so enthusiastically about STEM.....see you at the next event!! 🎉😊

2:50 PM - 11 Oct 2018

2 Retweets 3 Likes



2



3



Yvonne Weir

Replying to @MissElliott0

and 3 others

Follow

Many thanks to @MissElliott0 for coordinating a great event and STEM project. Fraser and I have both gained a lot from taking part. @S2YearTeamLHS @_LHSSTEM

3:30 PM - 11 Oct 2018

1 Retweet 3 Likes



1



3

