

Kew Gardens

- Situated in London, UK
- One of the largest and most famous botanic gardens worldwide
- Received UNESCO World Heritage Site status in 2003
- Houses the world's largest and most comprehensive living plant collection
- Focuses on scientific research, as well as being a major visitor attraction
- Annually receives around 1.2 million visitors, about 15% of whom are families

Public science engagement

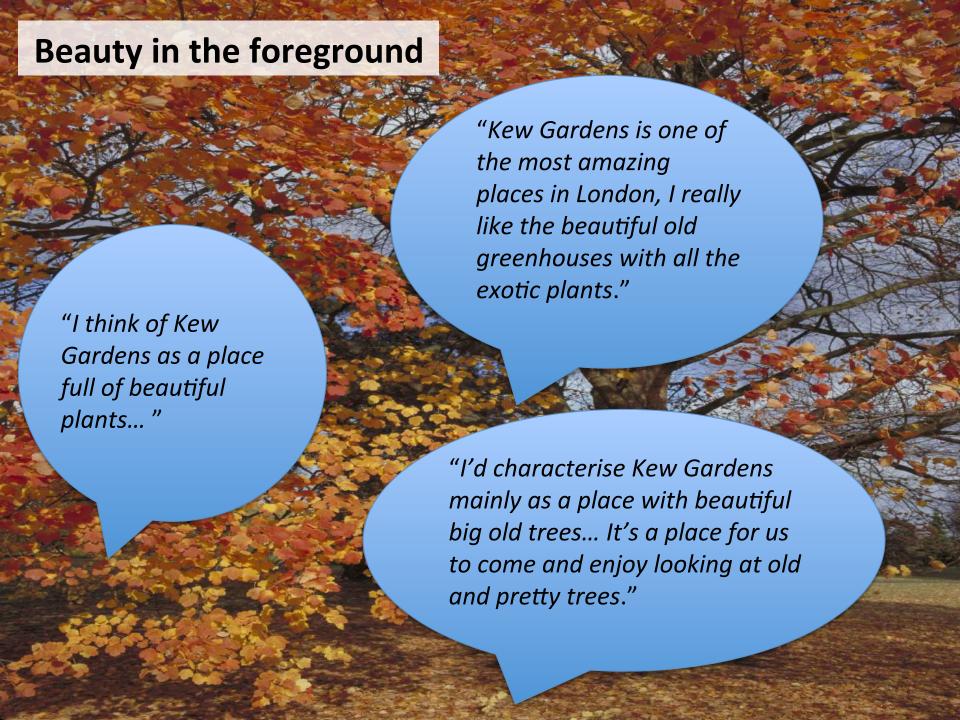
- Kew Gardens is obliged to 'allow the public opportunities to enter any land occupied or managed by Kew, for the purpose of gaining knowledge and enjoyment form the collections' (UK National Heritage Act 1983)
- The mission of Kew Gardens is 'to inspire and deliver science-based plant conservation worldwide, enhancing the quality of life.'
- Kew Gardens strategy documents outline aims to:
 - Create a visitor experience that delights, intrigues and informs
 - Engage visitors with Kew's mission and purpose
 - Inform visitors about Kew's work
 - Develop and expand public science learning facilities





Do families view Kew Gardens as a setting for them to learn science? Methods:

- Interviews with 24 families
- 29 accompanied visits
- What are accompanied visits?
 - Observe and participate in family visits
 - Insider's perspective
- Who are the families?
 - Children aged 2-12 years (mean 7 years)
 - All had previously visited Kew, often regularly for many years
 - Most parents note no specific interest/knowledge of science
- Data capture and analysis:
 - Audio recorded accompanied visits
 - Interviews, field notes

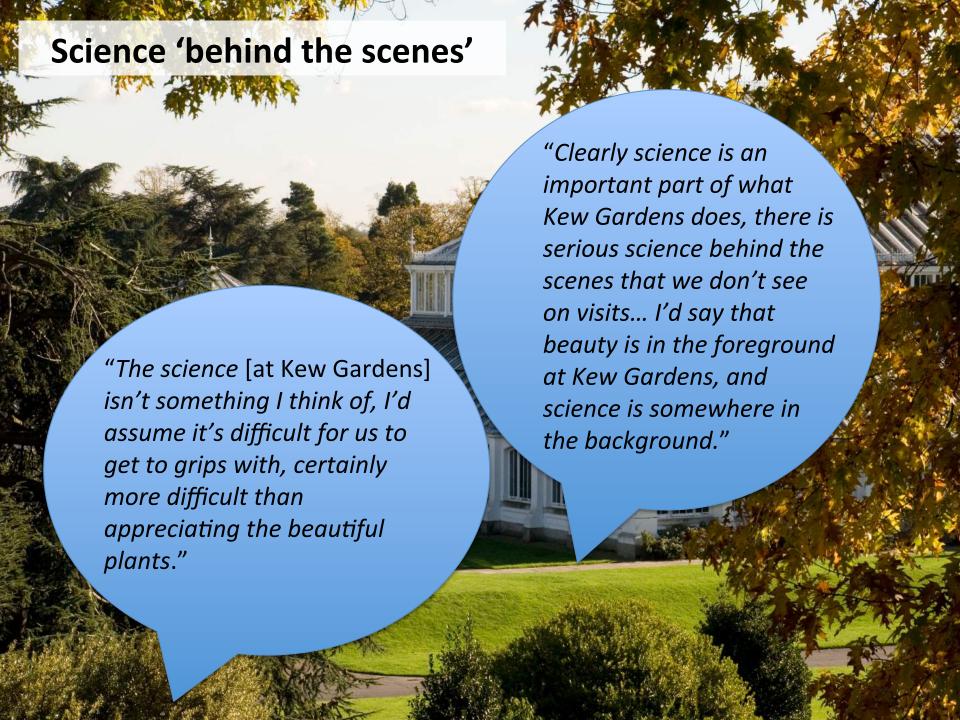




"My son learnt to walk at Kew Gardens... It's always going to be a very special place for our family."

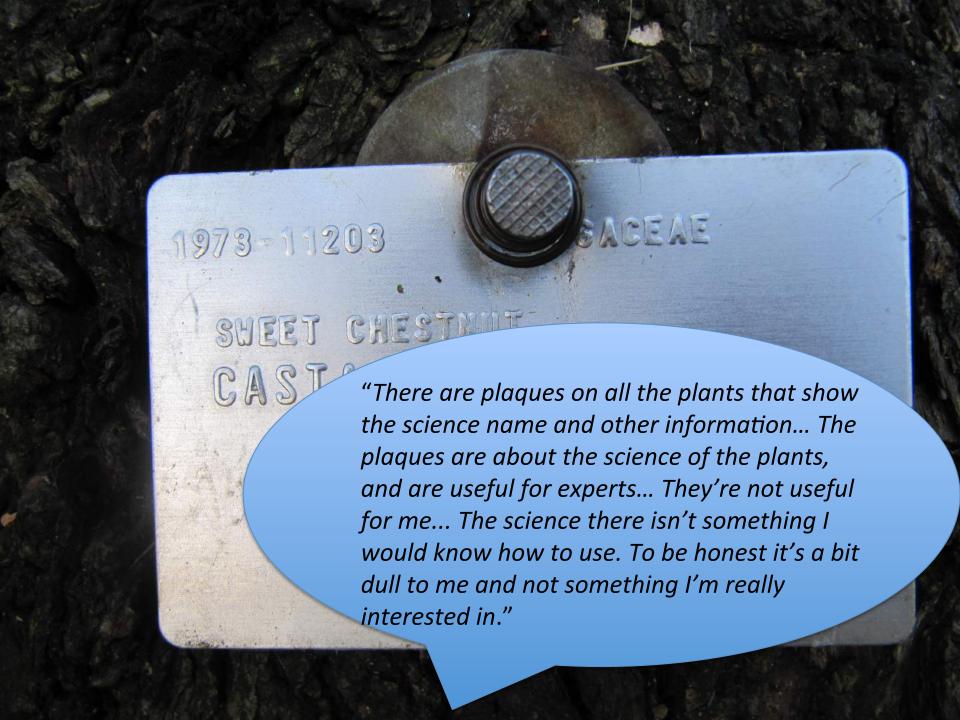
"The beautiful landscape in Kew Gardens is very important to our family. It's something I'd really like the children to pick up on. I want them to appreciate the beauty as part of who we are as a family."

"I feel really emotional about Kew Gardens. It's not just any beautiful place we visit. There are a lot of memories here, we've come for many years and I used to come with my parents when I was a child."





















Impact of guided sessions

Families:

- Spoke about themselves in relation to science at Kew Gardens
- Framed their visits to include science learning
- Viewed Kew Gardens as a setting for their families to learn science
- Spoke about science in more positive terms than before



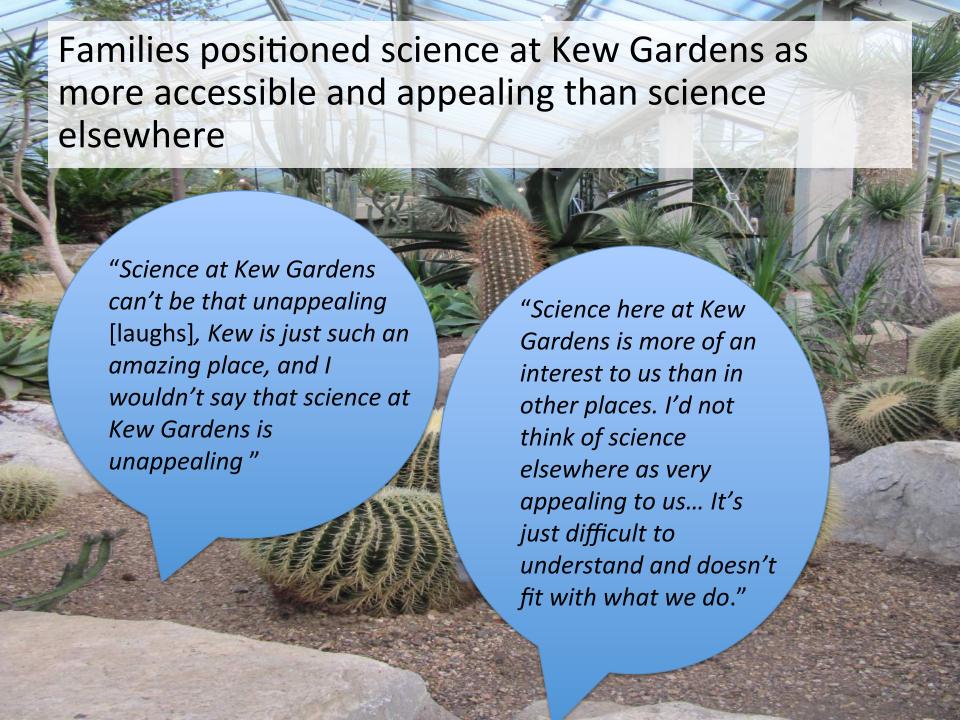
After the guided sessions: Families' prior attachment to Kew Gardens served as a platform from which they considered science

- Thought of themselves in relation to science across Kew Gardens
- Considered their visits to include science learning
- Wanted to be seen as associated with beauty and science at Kew Gardens

Reasons that guided sessions were associated with families' changed views

- Sessions provided objects (e.g., water bottle and tent) that families used during every-day lives
- Sessions explicitly portrayed science as interesting and accessible to families
- Sessions linked science at Kew Gardens to wider environmental concerns e.g. deforestation, climate change





Conclusions

- The appreciation of beauty can be a bridge towards appreciating science at Kew Gardens as relevant and interesting to families
- Families can be supported in viewing Kew Gardens as a setting for them to learn science through appropriate interpretation
- Families' positioning of science as more accessible than elsewhere needs further consideration

