The Great Science Share for Schools:
The Great Science Share for Schools in a campaign to inspire young people to share their own scientific questions and investigations with new audiences, to raise the profile of science in schools and communities as well as inspire them into science and engineering. Young people can find inspiration for their own science questions in many places such as fiction texts with a science theme, current new stories or learning about the work of science people in their community. A scaffolded whole class investigation can also inspire young people’s scientific questions and promote further enquiries while helping to model the skills of the enquiry process to support young learners in working more independently.

Context:
A new report from VotesforSchools and the UK Committee for UNICEF (UNICEF UK) has found that children and young people across the UK are extremely concerned about the climate crisis. The report that surveyed the opinions of 46,045 children aged 4-18 found that 95% of children are concerned about climate change with their biggest fears being the extinction of animals, extreme weather, less food and water, poor air quality and harm to people health. The Great Phizzi Share resources aim to support children in developing ideas about the physics aspects in the curriculum through enquiry within the context of climate action providing an opportunity for young learners to share their concerns in the classroom.

Suggested approach:

- **Whole School Assembly**: Established a shared understanding of climate change and climate action. Set the challenge of becoming a whole school science learning community.
- **Class investigations**: Children carry out an appropriate Great Phizzi enquiry for their age group 5-7 Solar Seasons, 7-11 Reflecting on Climate Action or 9-14 How transparent is transparent?
- **Great Phizzi Share**: All classes come together to share their questions and findings, along with the new scientific questions they are asking to find out more.
- **Follow on investigations**: Children are given the opportunity to develop their own lines of enquiry from the science questions they have asked either in class, after school clubs or as an home learning project.
- **Great Science Share**: Register for your school to take part in the Great Science Share for Schools on the 14th June 2022. Find ways for children to share their own questions with a new wider audience.
Launching the project:
Beginning your school’s Great Phizzi Share project with a whole school assembly will help to create your whole school science community. Developing a shared understanding of climate change and climate action, the links below might be useful for finding age-appropriate resources. Explain to children how physics in an area of science that they learn about in their science lessons (when they are learning about light, sound, forces, properties of materials, electricity, Earth and Space etc) that has really strong connections to Climate Change and Climate Action include examples such as:

- When you are learning about the seasons and how our weather changes you are starting to think about conditions on our planet and how they change as the planet orbits (travels around) the Sun.
- Heat and light from the Sun travels through space to our planet, understanding climate change and coming up with ideas on how to reduce it involves thinking about how this heat and light moves around, how it is absorbed and reflected.

Once you have explored the key themes explain that the whole school is to become a science learning community, carrying out a range of science enquiries to learn more about climate change and climate action with some children working like climate scientists and investigating changes in the weather, some working like geoengineers investigating how reflection of sunlight could help with climate action and others working like experimental physicists, investigating the optical and thermal properties of materials.

- The WWF website gas a vast range of climate action resources for schools including a high quality presentation to introduce climate change to a younger audience.
- The Young Climate Change Warriors website has links to a range of resources and age-appropriate videos on climate action such as the CAFOD Climate Change Animation.
- The UN Global Goals – World’s Largest lesson has a collection of Climate Changemaker resources to support climate education for everyone. Their Call to learning video could be a useful resource to launch your Great Phizzi Share.

Children get investigating:
There are three investigation packs for the enquiries, each with teacher notes, a presentation, and supplementary resources. Teachers can choose the pack that best fits with the age group of their class and their curriculum content. Remember to save examples of work from children’s enquiries to share with us, we would love to celebrate their successes but also these examples will help us support other teachers in thinking about progression in the skills of working scientifically.

What will your Great Phizzi Share look like?
There are so many ways that children can share their science questions, enquiries and findings with the rest of their school science community and new audiences. Visit the Share page of the Great Science Share for Schools website for some ideas.