

Lighthouse Activities

5 Tips for Success

These practical tips are drawn from the hands-on experience of the ICSE Science Factory project and its work with Lighthouse Activities (LHAs). They support universities, schools, businesses, and local authorities in launching, developing, and strengthening collaborative science initiatives that build meaningful partnerships and create lasting community impact.

1 Start With Real Community Challenges

Focus on challenges that truly matter to your community. When activities respond to real needs; they become meaningful and motivating for participants.



2 Learn by Doing

Use practical, hands-on activities. Let participants explore, build, test, and experiment - active involvement deepens understanding.



4 Ensure Inclusive Participation

Design activities for all ages and backgrounds. Use accessible methods and affordable materials so everyone can take part in the learning process.



What are Lighthouse Activities (LHAs)?

Interdisciplinary initiatives that address real-life challenges within the community. They create collaborative learning environments where schools, enterprises, and other partners work together on practical problem-solving, contributing to a continuous, lifelong learning journey for all participants.

3 Build Partnerships

Connect schools, universities, businesses, and community organisations. Collaboration brings diverse expertise and strengthens impact.



5 Make complexity Simple

Keep complex ideas understandable. Use stories, visuals, and demonstrations to introduce concepts before moving to theory. Show how something works before you talk about the theory.



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1 Universities



Share Your Lab

Provide schools with access to your facilities, tools, and scientific expertise. Encourage your students to act as mentors and support younger learners.

2 Schools



Start Small

Begin with one or two activities per year to build confidence. Integrate them into your regular curriculum to make implementation manageable and sustainable.

3 Enterprises



Be a Mentor

Support students in tackling real-world challenges from your industry. Show how scientific knowledge is applied in professional practice.

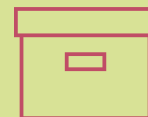
4 Authorities



Build Networks

Connect schools with local partners and enterprises. Facilitate funding opportunities and provide public spaces for science-related events.

5 Organizers



Document and Share

Create simple guides and capture photos of your activities. Sharing results enables others to replicate and scale successful initiatives.

