



Planetarium Science Center

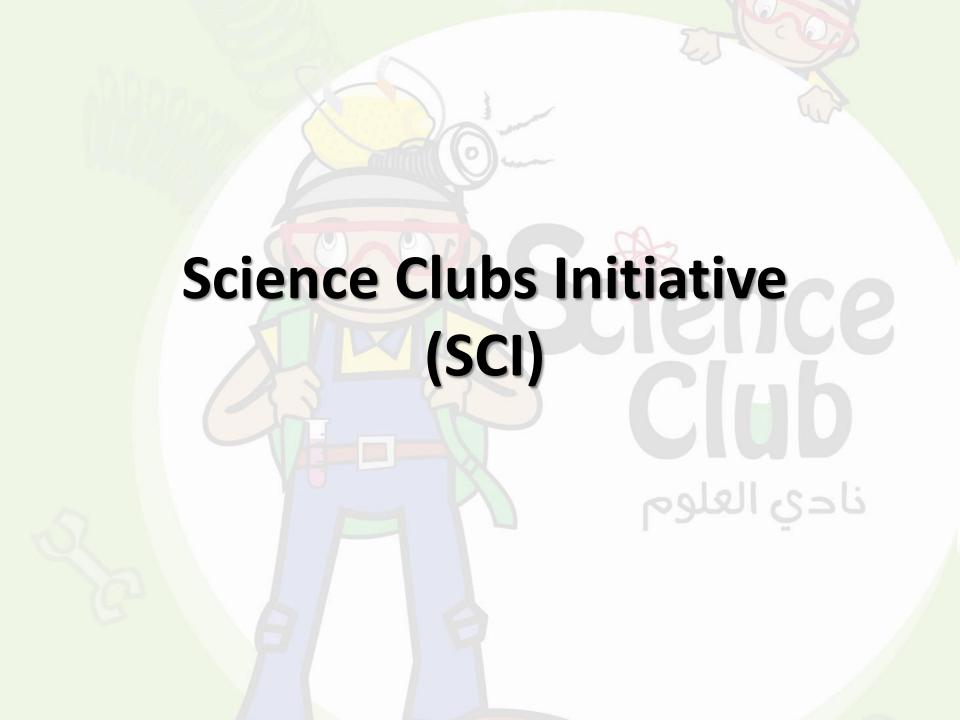
Teachers program برنامج تدریب المعلمین

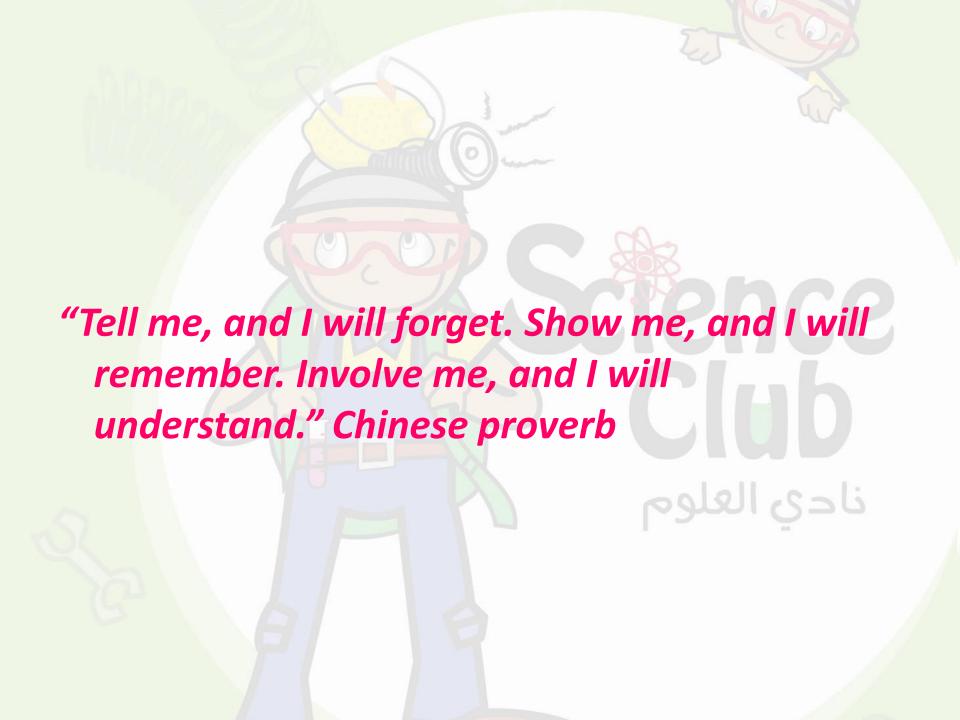
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Long Term program

- Designing long term programs at science centers help build strong relations with participants and visitors
- Long term programs are designed for both individuals like science fairs and competitions, and institutions like establishing science hubs in schools.
- Science Hubs act as satellites of the science centers.



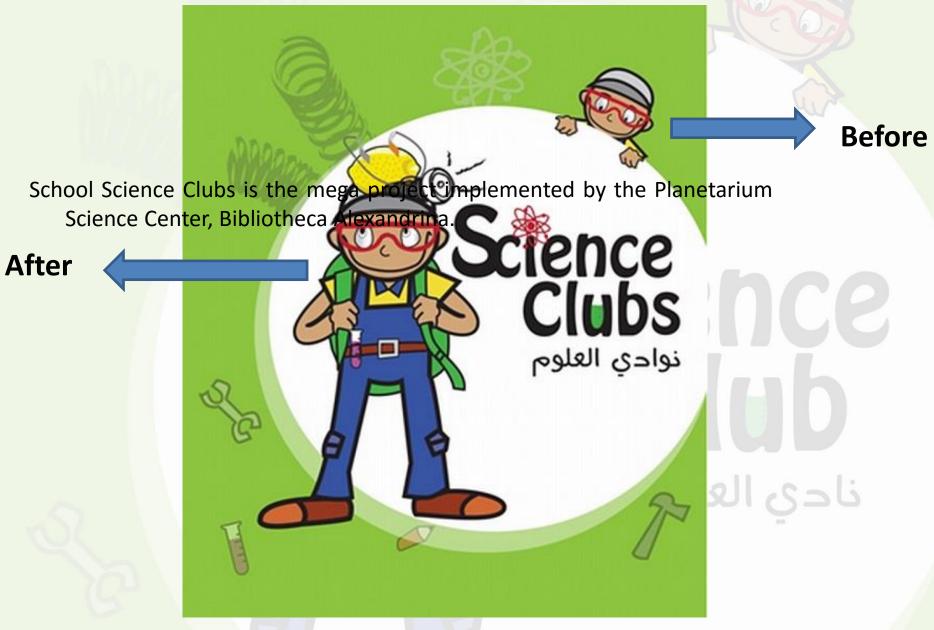


Science Clubs Initiative (SCI)

The BA launched the Science Clubs Initiative (SCI) to overcome the lack of practical science education in public schools. The SCI offers hands-on programs in selected public primary and preparatory schools. The initiative aims to build on children's curiosity and creativity to engage them in science learning and research.

•Goals:

- ☐ Helping youth, ages 6 to 14, develop 21st century skills, with a focus on scientific knowledge, creativity, critical thinking, problem solving, and team-work.
- ☐ Introducing Enquiry Based Science Education (EBSE) methodologies through teachers training sessions and workshops to explore students innovative ideas and increase their passion in science and technology.
- □ Upgrading teachers teaching and thinking skills through teachers training sessions;
- □Discovering and nurturing young scientists and researchers to build Egypt knowledge society;



School Science Clubs is the mega project implemented by the Planetarium Science Center, Bibliotheca Alexandrina.

•Goals:

- □ Helping youth, ages 6 to 14, develop 21st century skills, with a focus on scientific knowledge, creativity, critical thinking, problem solving, and team-work.
- ☐ Introducing Enquiry Based Science Education (EBSE) methodologies through teachers training sessions and workshops to explore students innovative ideas and increase their passion in science and technology.
- □ Upgrading teachers teaching and thinking skills through teachers training sessions;
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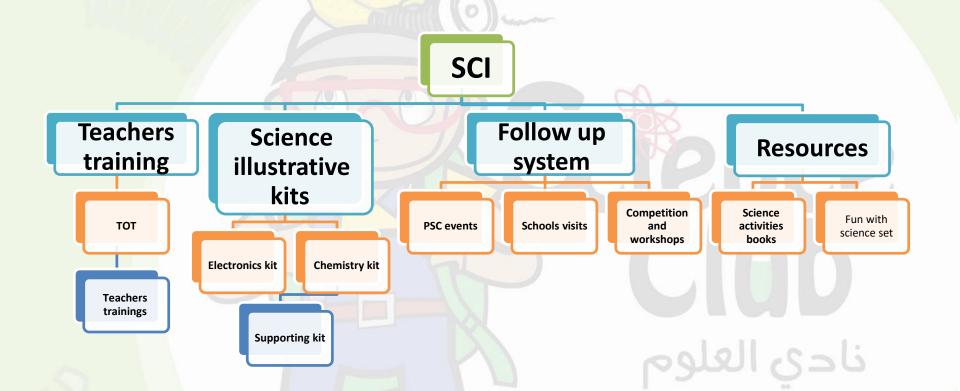
Science Clubs in points

- Started in 2006
- NOW, the SCI family is 3 ToT in addition to two PSC staff.
- 30 % of schools in Alexandria, 20 in Asyut (in Upper Egypt) covered by the end of the academic year 2017-2018

نادي العلوم

 Train from 2-3 teachers per school about "Methods of Science" and "How to teach science to kids"

Layout



Teachers Training program

برنامج تدريب المعلمين

- Teachers' training is always the core of work of any successful Science Hub, to level up the teachers' practical skills, and to improve their teaching skills outside curriculum barriers.
- Teachers Training Program divided into:
- Level 1: "How to animate Science"
- Level 2: Advanced level

Interactive sessions: for the teachers who conducted an activities in at their school corners and facing an obstacles for some topics (Brainstorming, mindmapping etc..."

Level 1: How to animate Science









Level 2: Advanced level

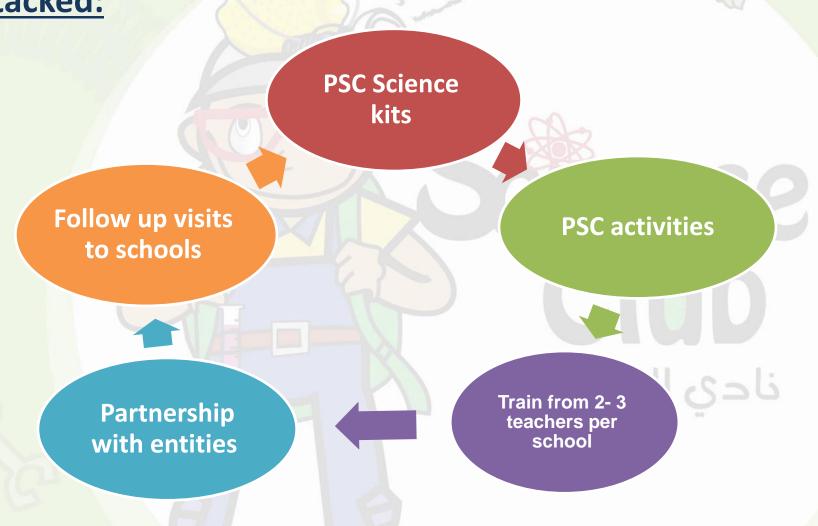








To sustain the project and guarantee the continuity of the project from 2006 till now, different steps is being tacked:



Green City challenge

تحدي مدينتك الخضراء





Green City challenge

تحدى مدينتك الخضراء

Target: preparatory schools (Governmental); Start/End: during the

school year 2017-2018

Schools Work











Raising environmental awareness.

Understanding our resource.

Realizing the problem and raising action plan.

Mechanism of Operation

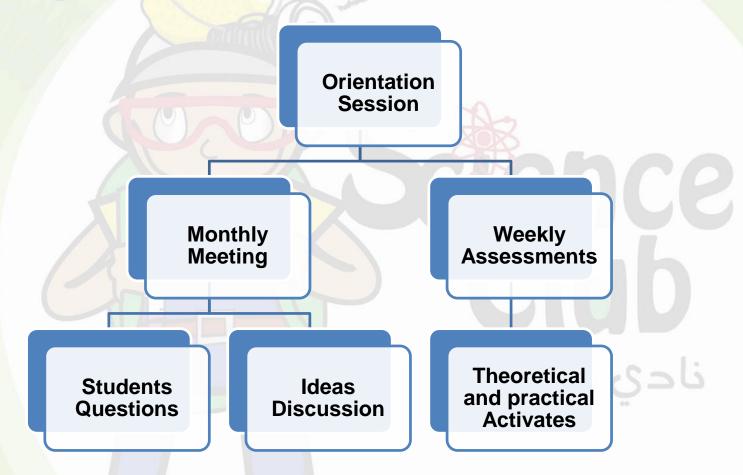
Orientation session to present the target of the competition role.

Monthly meetings to follow up schools' works.

Weekly assessment via WhatsApp group.

It was Remotely communicated

Operation Mechanism



Activities

How to implement this in your science center???



Winners teams

1st place



3rd place



2nd place



"What we learn to do we learn by doing"





Future Generations





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