

# National Council of Educational Research and Training (NCERT)



# Introduction

- The National Council of Educational Research and Training (NCERT)
  - an autonomous organisation
  - set up in 1961 by the Government of India
  - to assist and advise the Central and State Governments on policies and programmes for qualitative improvement in school education.

# Teacher Development: Pre-service

Innovative pre-service teacher education courses such as

- Four-year B.Sc. B.Ed.
- Two-year B.Ed.
- M.Sc.Ed.

# Capacity Building: In-service

## Target Groups

- Key Resource Persons (SCERT, DIET, IASE, CTE, KGBV, Schools)
- Teachers of State government schools, KVS, NVS, CTSA and others

## Modes used

- Face-to-face
- EduSat Videoconferencing
- Online Learning (Action Research, CTES, MOOC)

# Teacher development contd..

## Resource materials

- Pedagogy of Science
- Pedagogy of Mathematics
- Teacher's Training Packages in Science and Mathematics for the Secondary stage
- Teacher Training Materials for Teachers of Kasturba Gandhi Balika Vidyalaya (KGBV) schools
- Teacher's Handbook in Science for Class VI
- Source Books on Assessment in Science and Mathematics for the Upper Primary Stage
- Training Packages in Science and Mathematics at the Upper Primary stage for Teachers without substantial background in Science and Mathematics

# School Facilities in Science and Mathematics

Science & Mathematics Kits – Primary, Upper Primary & Secondary levels



# School Facilities in Science and Mathematics contd..

- Math Laboratory

- Science Park



- Herbal Garden



# Effective Classroom Transaction

During teacher training programmes and in the learning materials the following points are taken care of:

- Child-centred learning
- Engaging every child in exploration of science and mathematics concepts
- Activity-based learning
- Use of on-line resources
- Laboratory experiments
- CCE and Learning Indicators



# Students

- **The resource material developed are** Child-friendly, activity-based and linked to daily life of a child to promote spirit of enquiry, critical thinking and discovery
- **Resource materials developed**
  - Textbooks for different stages
  - Supplementary materials (Exemplar Problem books, Lab manuals, Environmental Education, Disaster Management, etc.)
  - Digital resources (NROER, Audio, Video & Multimedia CDs/DVDs, CTES)
  - 38 books in the series 'Reading to Learn'
  - Bridge Courses for Kasturba Gandhi Balika Vidyalaya (KGBV)

# Students contd..

## Science exhibitions

- Jawaharlal Nehru National Exhibition for Science, Mathematics and Environment for children
- State Level Exhibition for Science, Mathematics and Environment for children
  - To provide a forum for children to pursue their natural curiosity, creativity, innovation and inventiveness
  - To lay emphasis on the development of science and mathematics to achieve goals of self-reliance, socio-economic and socio-ecological development
  - To inspire children to devise innovative ideas towards prevention and mitigation of environmental issues.

*Thanks!*

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