

How much is too much-What to learn, What to teach.

> -Qaadir Maaz Director, MCRT Bengaluru



#### Agenda

01

Coding and AI in schools.

02

Al and coding curricular suggestions

03

Screen time limits

04

Al Apps- Adapt to Advance 05

Teachers- Need to upgrade

06

Robots-Replacement Vs Assistance

#### **Future Education**

https://youtu.be/8vK72UJJjb4?si=pCX7jbRno8okqMPv

### Al in schools

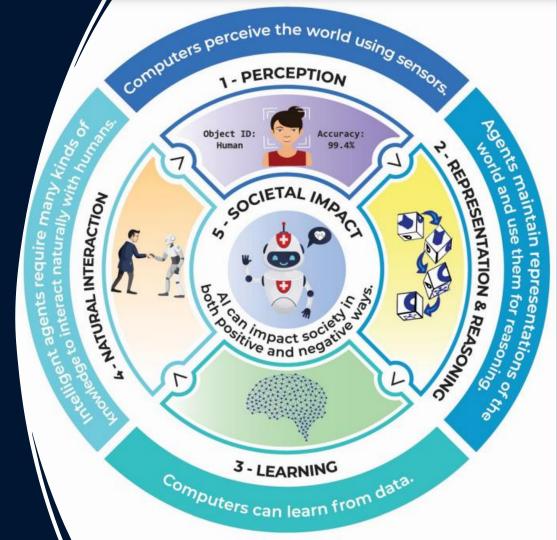
- Research programs available.
- Piloted in many schools.
- Research program for schools: https://ai4kl2.org.

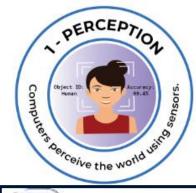


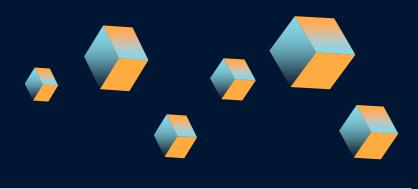




# Guidelines for AI education







be able to do.



#### Draft Big Idea 1 - Progression Chart

www.Al4K12.org

<b>AI4K12</b>				
Big Idea #1: Perception	Computers perceive the world using sensors.			
Concept	K-2			

Perception is the extraction of

meaning from sensory information

using knowledge.

The transformation from signal to meaning takes place in stages, with increasingly abstract features and higher level knowledge applied at

their expectation.

LO = Learning Objective: what students should

EU = Enduring Understanding: what students

Concept	K-2	3-5	each stage. 6-8	9-12

## What to teach??? When to teach???



Exposure



Use of Al Tools

Advanced Programming

Introduction-Coding

# Recommended screen time

(total hours exposed to ANY screen, including TV/computer/mobile phones)

- 0-2 years: No screen time
- 2-5 years: half hour under supervision
  - 6-11 years: one hour under supervision
- 11-18 years: two hours of high quality content for recreational use

#### AI in Schools

#### Teachers

- Need of the hour.
- Apps make a lot of mundane jobs easier.
- Saves time.
- Supports differentiated teaching.
- Helps in creating interesting teaching content.
- Time wasting activities can be reduced.
- Personalised reports can be generated.

#### Students

#### Apps promote:

- individualised learning through interesting games/activities.
- Self-reflection
- Creativity
- Reasoning

#### **Teachers**

Upgrade their skills

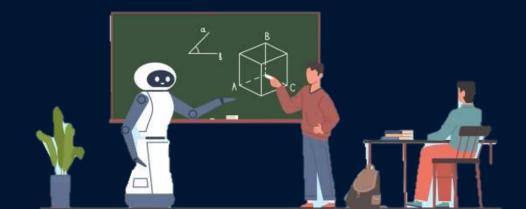
Flexible to integrate hybrid systems

Explore AI tools

Keep self-updated in technology

#### Robots collaborating or assisting teachers

- Al should take over what is routine, mundane and repetitive from teachers.
- Al assisting teachers is an ideal scenario.
- Adds human touch in addition to keep the students intelligently involved.



### **slides**go