

Fundamentals of Technology in Education

OUTLINE

- ❑ Technology in Conventional class
- ❑ Emerging Technologies in Conventional class
- ❑ ICT enhanced Learner in Conventional class
- ❑ Digital Learner in Conventional Class
- ❑ Digital Learner in Digital Class

SAMR

Redefinition

Tech allows for the creation of new tasks, previously inconceivable

Modification

Tech allows for significant task redesign

Transformation

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution

Tech acts as a direct tool substitute, with no functional change

Enhancement

פרדס

- **סוד** — esoteric/mystical meaning, as given through inspiration or revelation
- **דרש** — comparative meaning, as given through similar occurrences
- **רמז** — meaning beyond just the literal sense
- **פשוט** — straightforward direct meaning

- ❑ Technology in Conventional class

- ❑ Emerging Technologies in Conventional class

 - ❑ **SUBSTITUTION**

- ❑ ICT enhanced Learner in Conventional class

 - ❑ **AUGMENTATION**

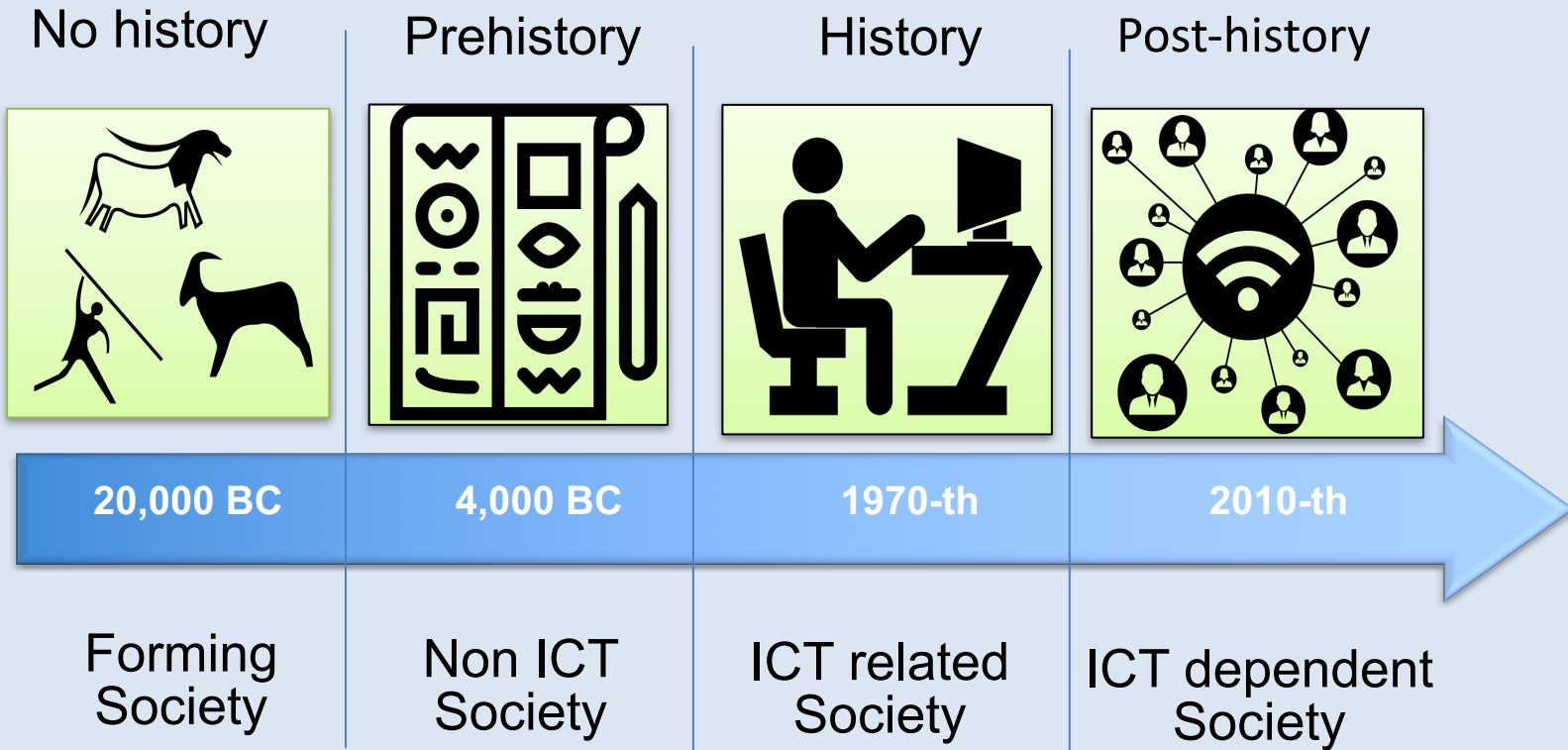
- ❑ Digital Learner in Conventional Class

 - ❑ **MODIFICATION**

- ❑ Digital Learner in Digital Class

 - ❑ **REDEFINITION**

TIME. DIGITAL PERSPECTIVE



Conventional Class

any technology is a tool

No ICT, pre-history (XVIII-mid XX) (Floridi, 2014)



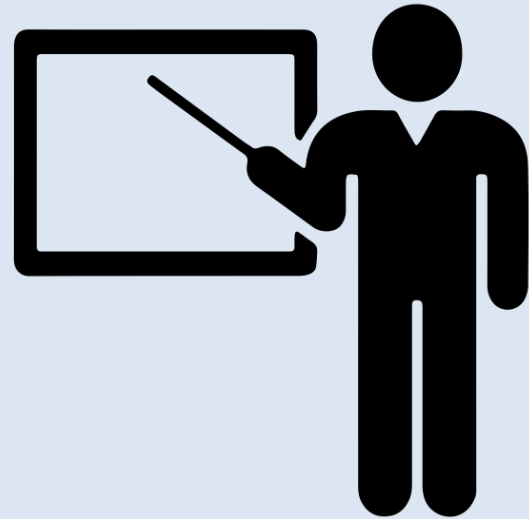
Conventional class

ICT related class, history (from 1970-th to 2010-th)

Technology is a tool



Learner



Teacher

Conventional class

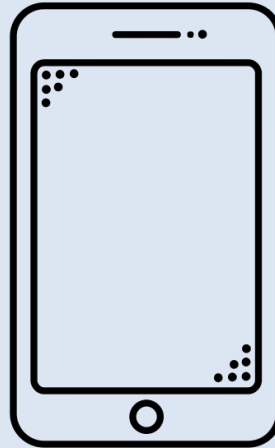
Emerging Technologies in Conventional Class

Ministry of Education requires integrating emerging mobile technologies in school. Mobile devices are provided from outside

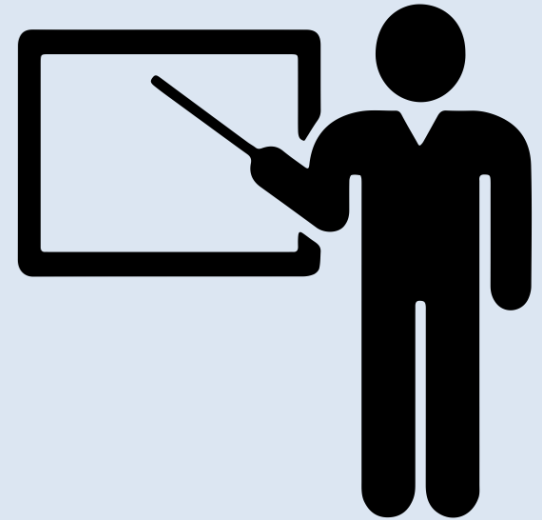
Emerging Technologies in Conventional Class



Learner



Mobile

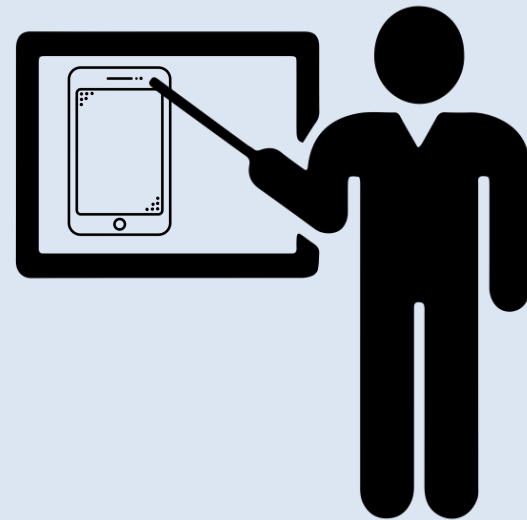


Teacher

Emerging Technologies in Conventional Class



Learner



Teacher

SUBSTITUTION: ICT IS A TOOL

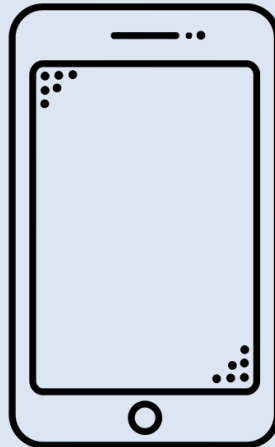
ICT enhanced Learner in Conventional Class

Ministry of Education requires integrating emerging mobile technologies in school where learners are owners of mobile devices

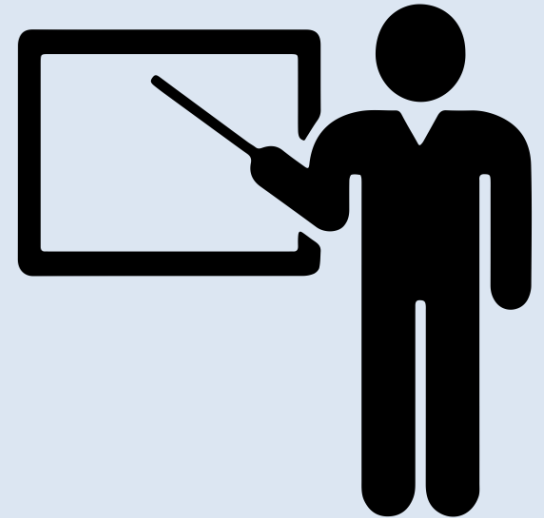
ICT enhanced Learner in Conventional Class



Learner



Mobile



Teacher

**ICT tool for enhancing learning. ENHANCEMENT
Questionable situation (Ess, Simondon)**



Learner with mobile

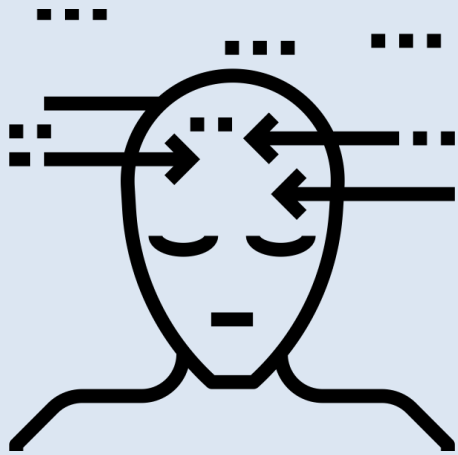


Conventional Teacher

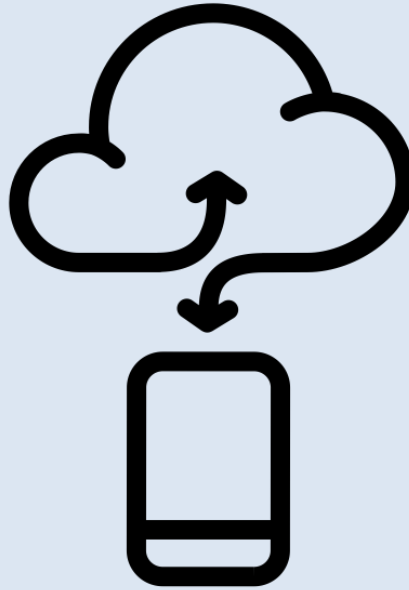
AUGMENTATION - ENHANCED TOOL

Digital Learner in Conventional Class

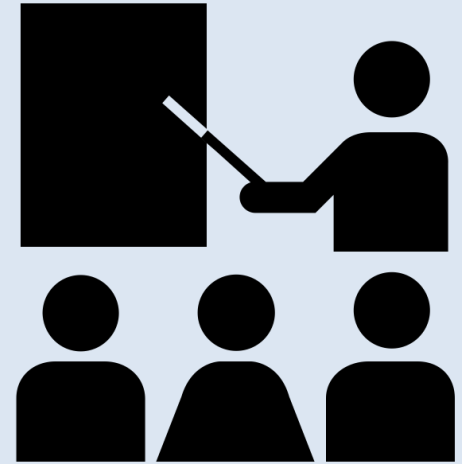
Digital Learner in Conventional Class



Digital Learner

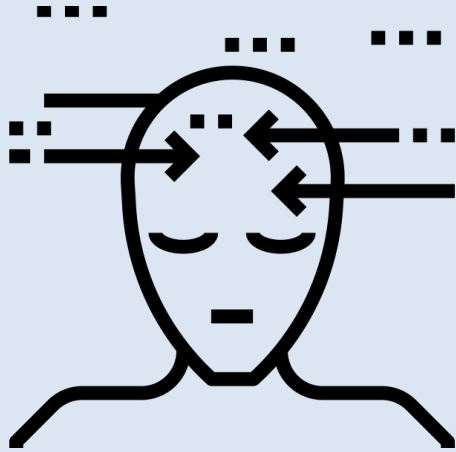


Cloud Mobile

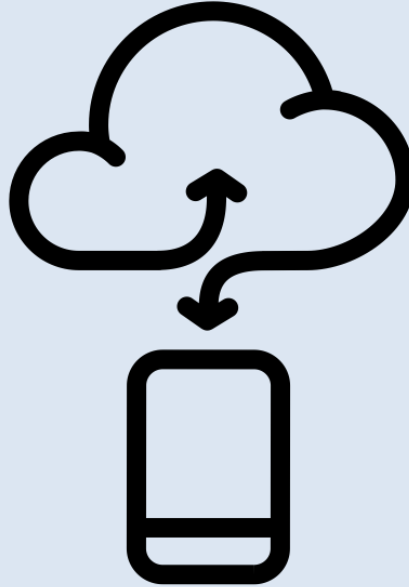


Conventional Class

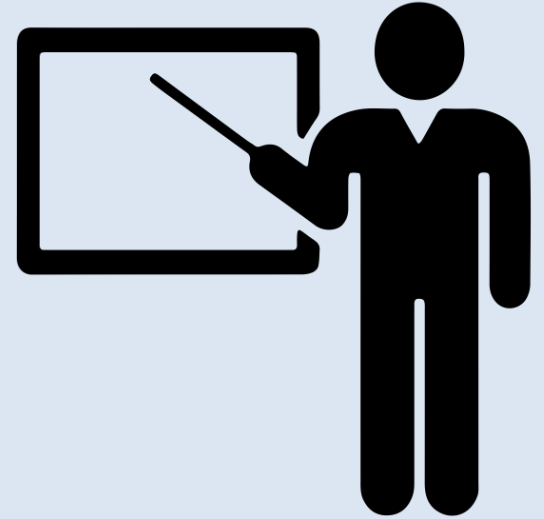
Digital Learner and Conventional Teacher



Digital Learner



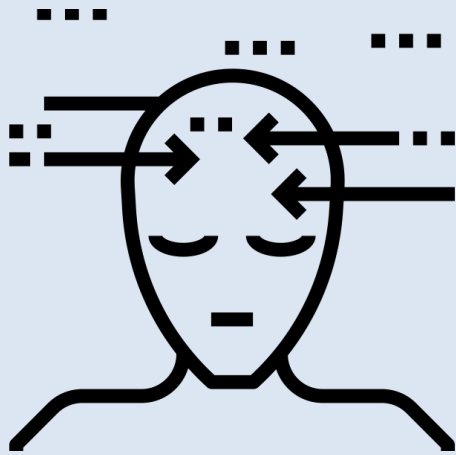
Cloud Mobile



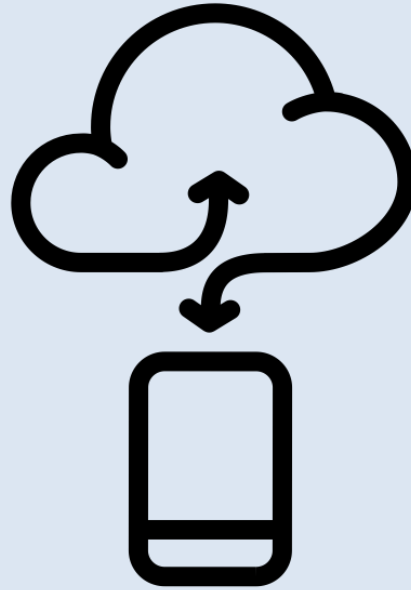
Conventional
Teacher

Rejection of technology, instrumental contradiction

Digital Learner in and Digitally reflexive teacher



Digital Learner



Cloud Mobile



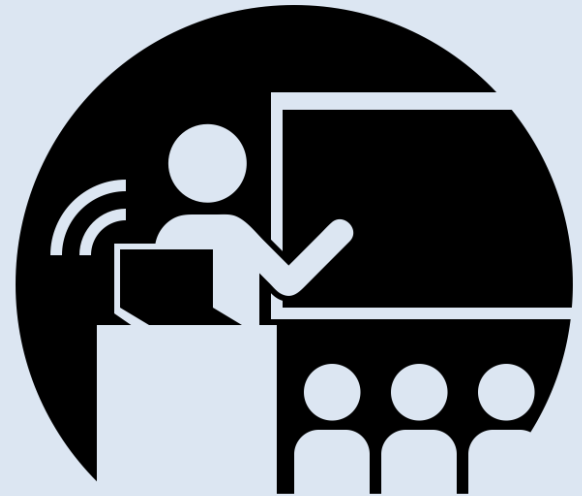
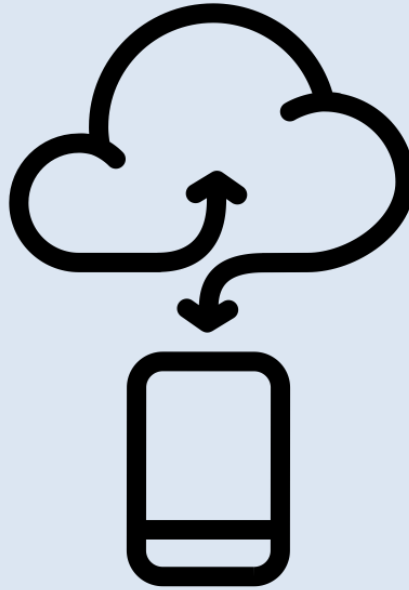
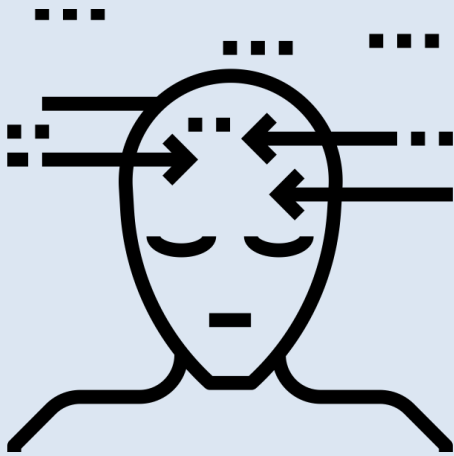
Digitally aware
teacher

MODIFICATION - ICT is not a tool any more

Digital Learner in Digital Class

Digital Learner in Digital Class

Cloud Mobile



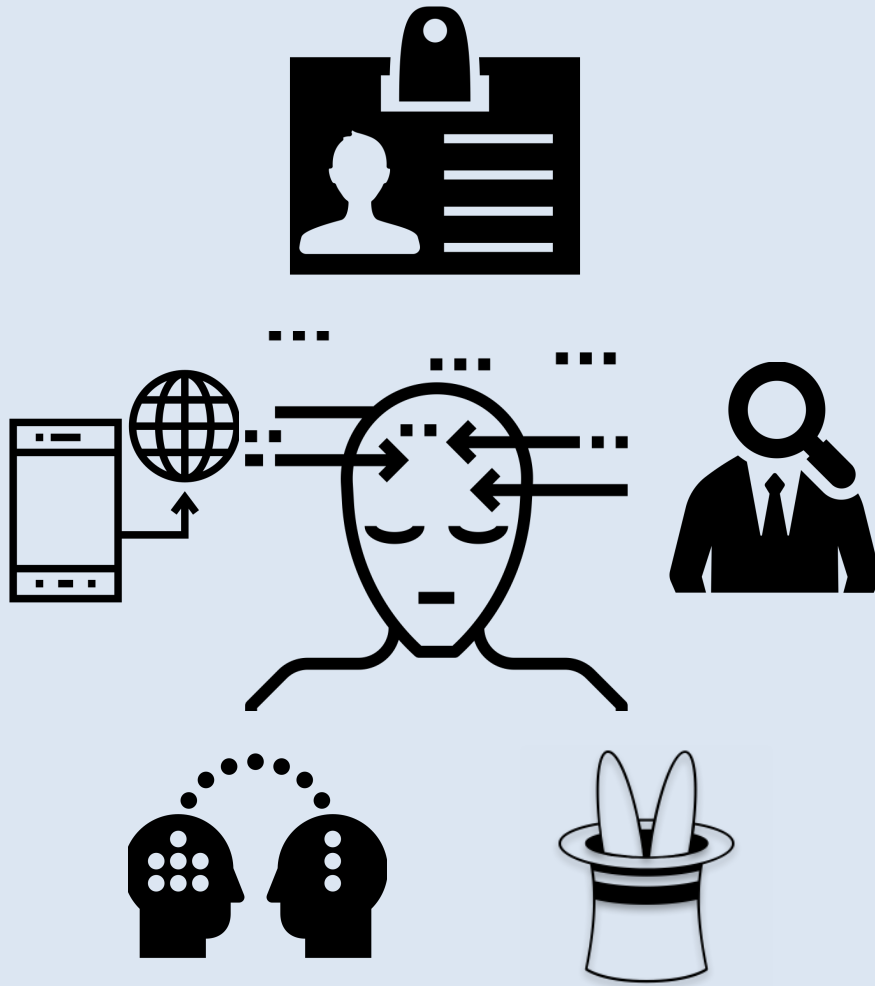
Digital Learner

Technology

Digital teacher

REDEFINITION - Digital Class

Blended Learning, Digital Learner



Flipped Class. Digital Teacher



Instrumental interpretation is insufficient (Heidegger)