

Computer Assisted Teaching & Learning



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"We think too much about effective methods of teaching and not enough about effective methods of learning."

- John Carolus S. J.

Education's purpose is to replace an empty mind with an open one.



**Child
Centered
Education**

While we try to teach our children all about life, our children teach us what life is all about.

In your course materials

And

In the your teaching – learning environment

Always find an element of ‘fun’

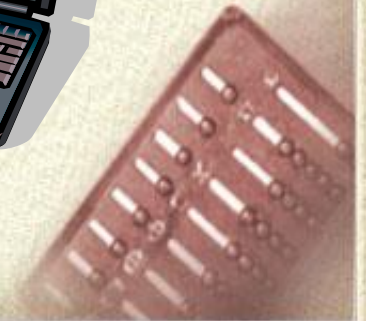
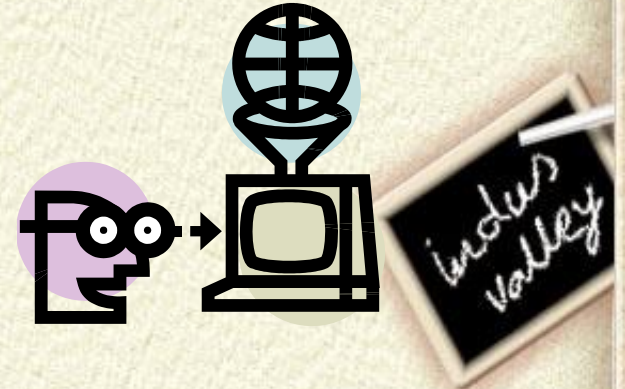
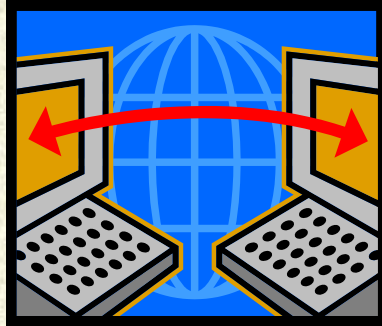
Enjoy your teaching



Your learners will enjoy their learning

PIONEERING AGE

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“Teachers who do not use the computer in their teaching are not only doing a disservice to their pupil, but are rejecting a teaching tool which is limited in its use by the imagination of the teacher.”

- Moore (1986)



**Computers can not replace
the function of teachers.
Computer does not teach, it
is teacher who teach with
computer**



**Use of Computer
by Teacher**

**For
Teaching
Purpose**

**For
Learning
Purpose**

**For
Research
Purposes**



Computer Assisted Instruction (CAI)

(CAL)

Computer Assisted Learning



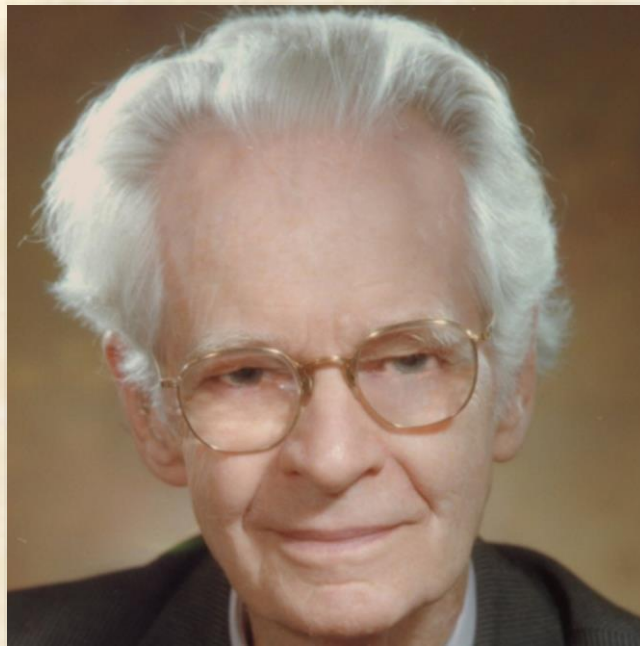
History of CAI



**Programmed
Instruction**

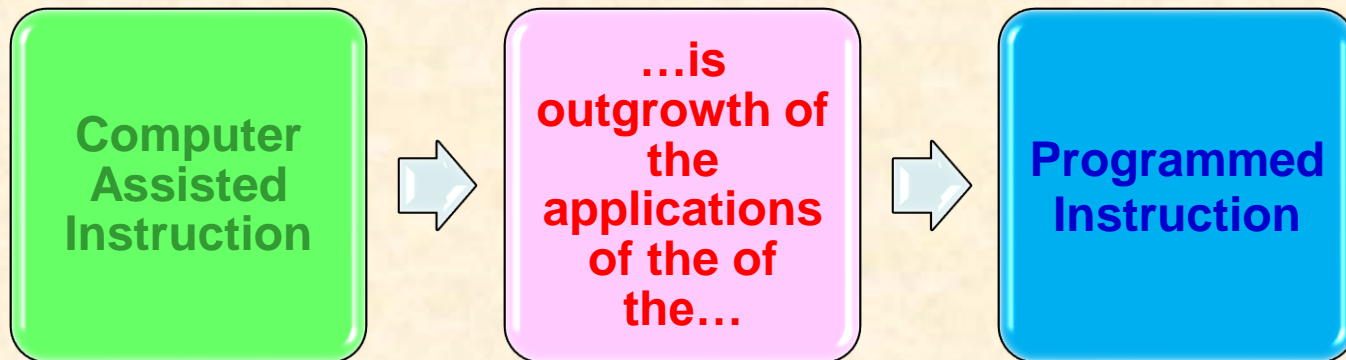
History of CAI

Programmed Instruction



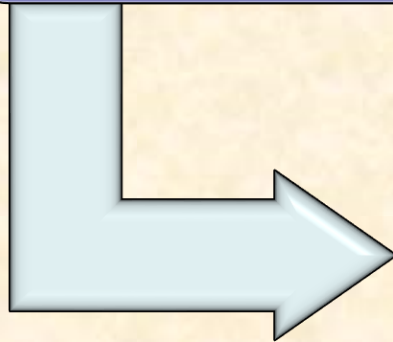
B.F. Skinner

History of CAI



History of CAI

The first general-purpose system for computer-assisted instruction was...



....the **PLATO System** developed at The University of Illinois at Urbana-Champaign.

History of CAI

The Plato system evolved with the involvement of Control Data created....

.....the first authoring software used to create learning content.

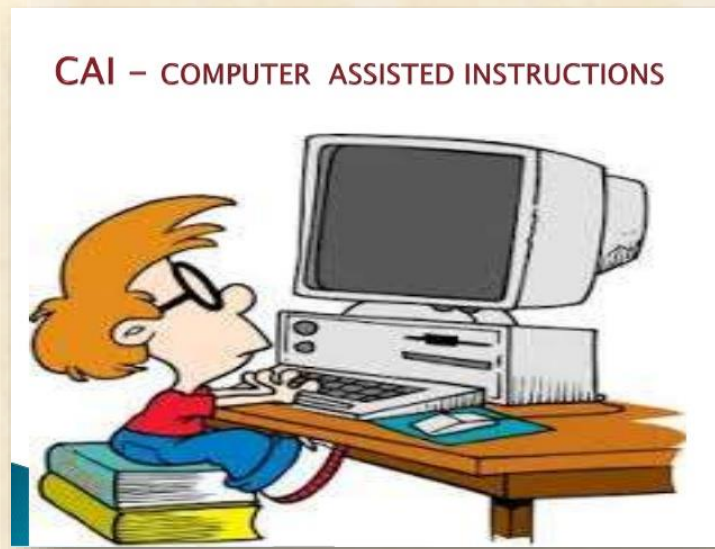
The authoring software was called PLATO.

History of CAI

The Science Research Council then wrote the first CAI system of Math for K-6. Wicat Systems then created WISE as their authoring tool using Pascal and developed English and Math curriculum for K-6.

History of CAI

The very first complete CAI classroom for K-6 students was set up at the Waterford Elementary School in Utah using the Wicat system.



History of CAI



The first public CAI classroom with its own layout and design was implemented with the Wicat System by Baal Systems (later known as Virtual Systems) in Singapore as a joint operation between Wicat and Baal. This design evolved all the computer learning centers globally.

Meaning of CAI



When computer used as an instructional tool to impart education and training, it is called Computer Assisted Instruction.





When computer used as learning tool it is called Computer Assisted Learning.



“CAI refers to the use of the computer and software programmes to assist the delivery of information to the student.”

By: Wright and Forcier (1985)

When computer is used as teaching machine or as teaching tool, it is referred to as computer aided/assisted instruction or learning.



When computer used as an instructional tool to impart education and training, it is called Computer Assisted Instruction.





When computer used as learning tool it is called Computer Assisted learning.



Definition of CAI

According to **Wright and Forcier (1985)** “CAI refers to the use of the computer and software programmes to assist the delivery of information to the student.”

राइट व फोर्सियर (1985) के अनुसार कम्प्यूटर सह अनुदेशन का तात्पर्य कम्प्यूटर तथा सौफ्टवेयर कार्यक्रमों का इस प्रकार से प्रयोग करने से है। कि सूचनाओं को आसानी से विद्यार्थियों के लिये प्रतिपादित किया जा सके।

Definition of CAI

हिलगार्ड व बाउर (1977) ने माना है, कि कम्प्यूटर सह अनुदेशन का क्षेत्र अब इतना विस्तृत हो गया है कि अब इसे मात्र स्किनर द्वारा प्रतिपादित अभिक्रमित अधिगम अथवा शिक्षण मशीन के अनुप्रयोगों के रूप में नहीं समझा जा सकता है।

Computer assisted instruction has now taken as so many dimensions that it can no longer be considered as simple derivative of teaching machine or the kind of programmed learning that skinner introduced -- Hilgard and Bower (1977)

Definition of CAI

भट्ट एवं शर्मा (1992) ने कम्प्यूटर सह अनुदेशन को शैक्षिक उद्देश्यों
की प्राप्ति की दिशा में विद्यार्थी कम्प्यूटर नियन्त्रित प्रस्तुतिकरण तथा
अनुक्रिया रिकार्डिंग उपकरण के मध्य चलने वाली अतःक्रिया के रूप में
समझा जा सकता हैं।

CAI is defined as an interaction between a student a computer controlled display and a response entry device for the purpose of achieving educational outcome- Bhatt & Sharma

An illustration of a person sitting at a desk, working on a computer. The person is wearing a grey jacket and a light blue shirt. They are looking at two computer monitors. A desk lamp is on the left side of the desk. The background is a textured, light brown wall. The text "Thank you" is overlaid in the center of the image in a large, bold, purple font with a blue outline.

**Thank
you**