



# EMPOWERING TECHNICAL EDUCATION LEARNERS IN E-LEARNING

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A word cloud centered around the word "Learning". The word "Learning" is the largest and most prominent, written in a dark red, bold, sans-serif font. Surrounding it are several other words in different sizes and orientations, all in a dark red color. The words include "Pedagogy", "Technology", "E-Learning", "Active", "Teaching", "Education", "Technical", and "Learners". The words are arranged in a circular pattern around the central word, with some overlapping. The background is white, and there is a solid dark grey horizontal bar at the top of the image.

**Learning**

Pedagogy  
Technology  
E-Learning  
Active  
Teaching  
Education  
Technical  
Learners



# Challenges

**21st century  
learners**



**Skills:**  
Communication,  
Collaborative,  
Information

**Technology**



# Pedagogy



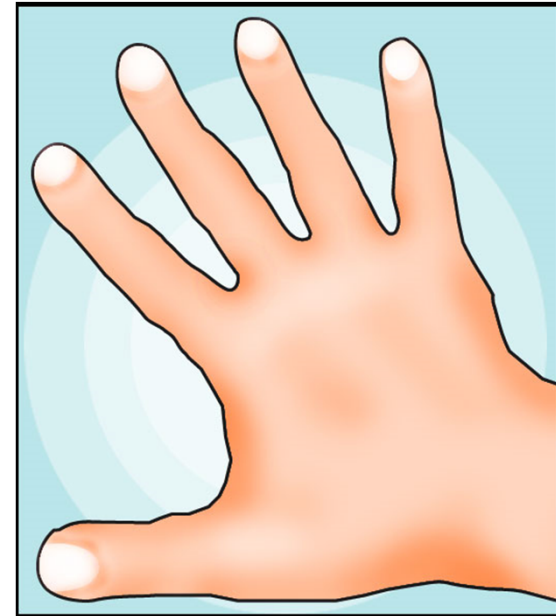
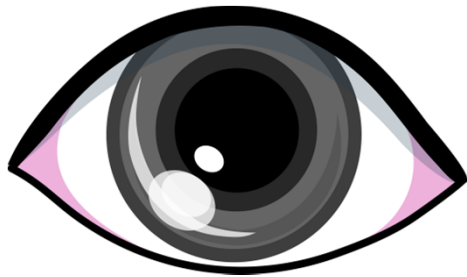
“...using technology is the students’ job; the teachers’ job is to coach and guide the use of technology for effective learning..”

“..digital technology is the enabler, allowing students to teach themselves in ways they couldn’t in the past..”

Partnering Pedagogy (Marc Prensky, 2010)

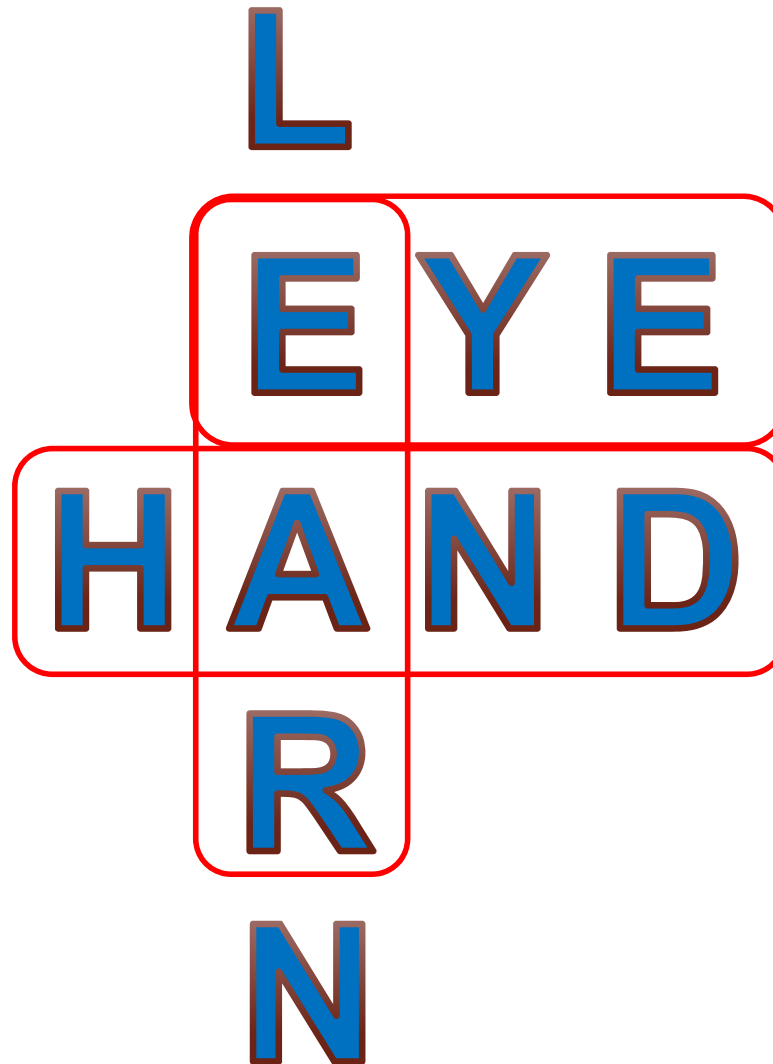


# VAK Learning Style



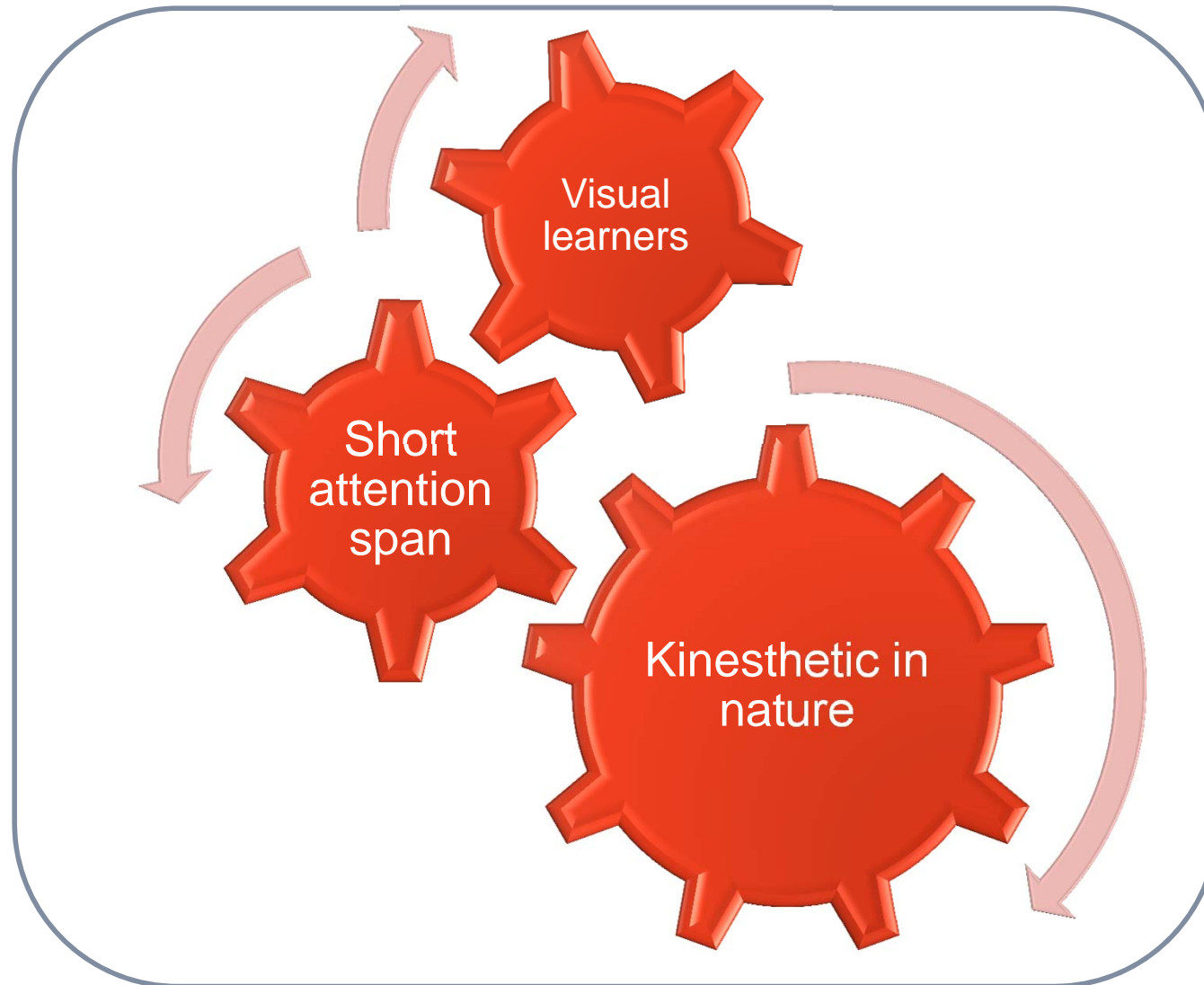


# VAK Learning Style





# Technical Education





# Empowering ELearning

“..The core elements of active learning are student activity and engagement in the learning process, and active learning is often contrasted to the traditional lecture where students passively receive information from the instructor..”

(Michael Prince, 2004)

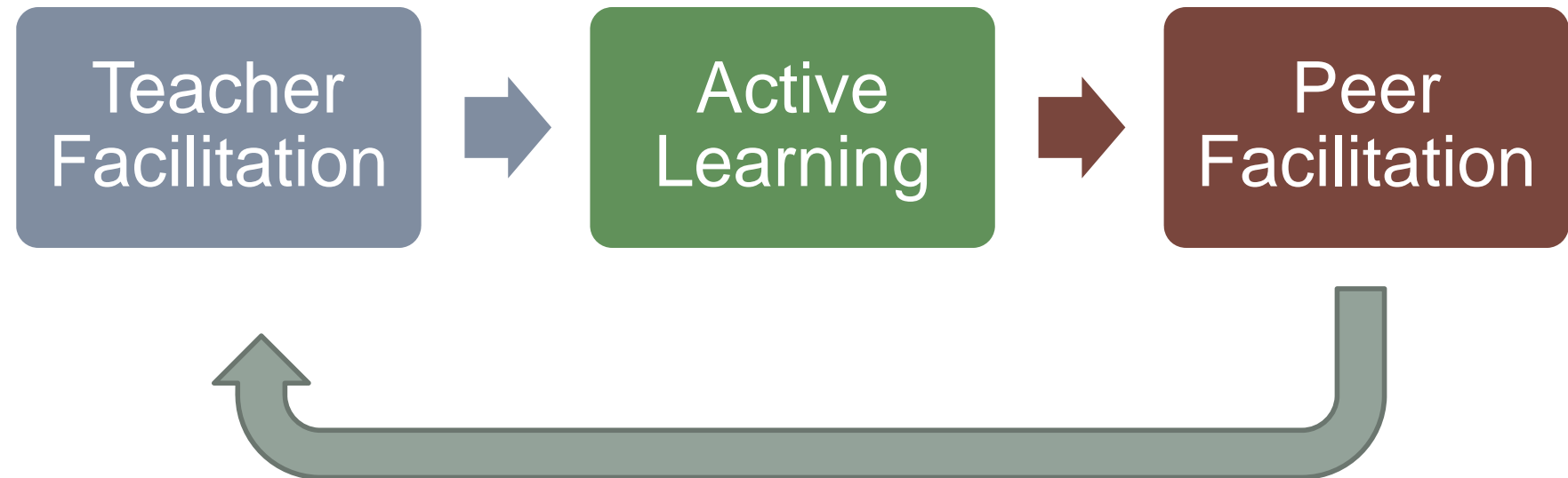




# Video: Empowering ELearning



# Empowering ELearning





# Empowering ELearning

“...Peer mediation with young children is a relatively novel approach aimed at teaching young children how to mediate to their peers; the main benefits of peer mediation are in developing children's mediation teaching style and cognitive modifiability...”

(Tzuriel, 2007)



# Differentiated Learning

“.. Differentiated instruction is based upon the concept that the teacher is a facilitator of information, while students take the primary role of expanding their knowledge through research..”

(Robinson et al., 2014)



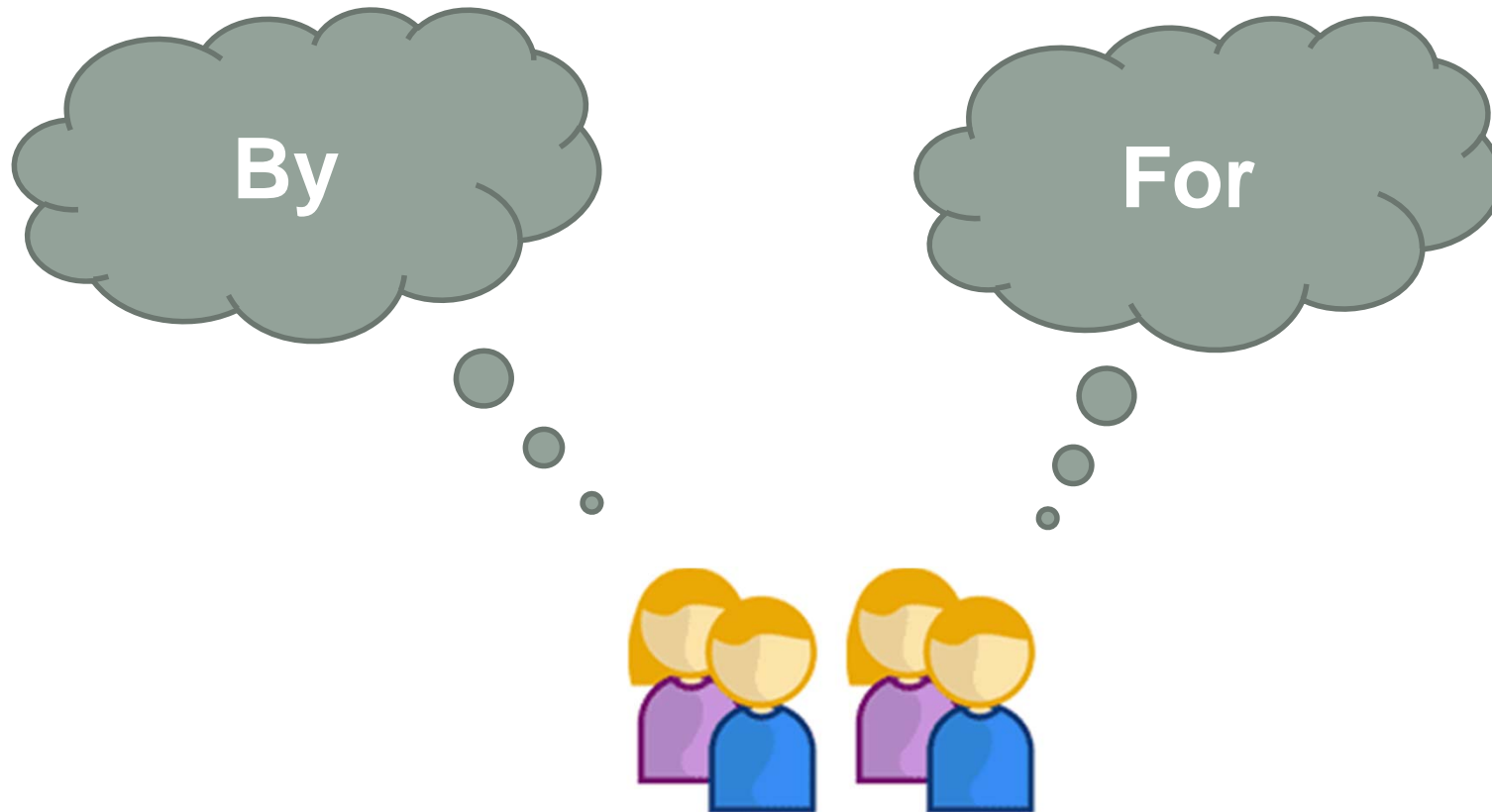
Group work



Individual work

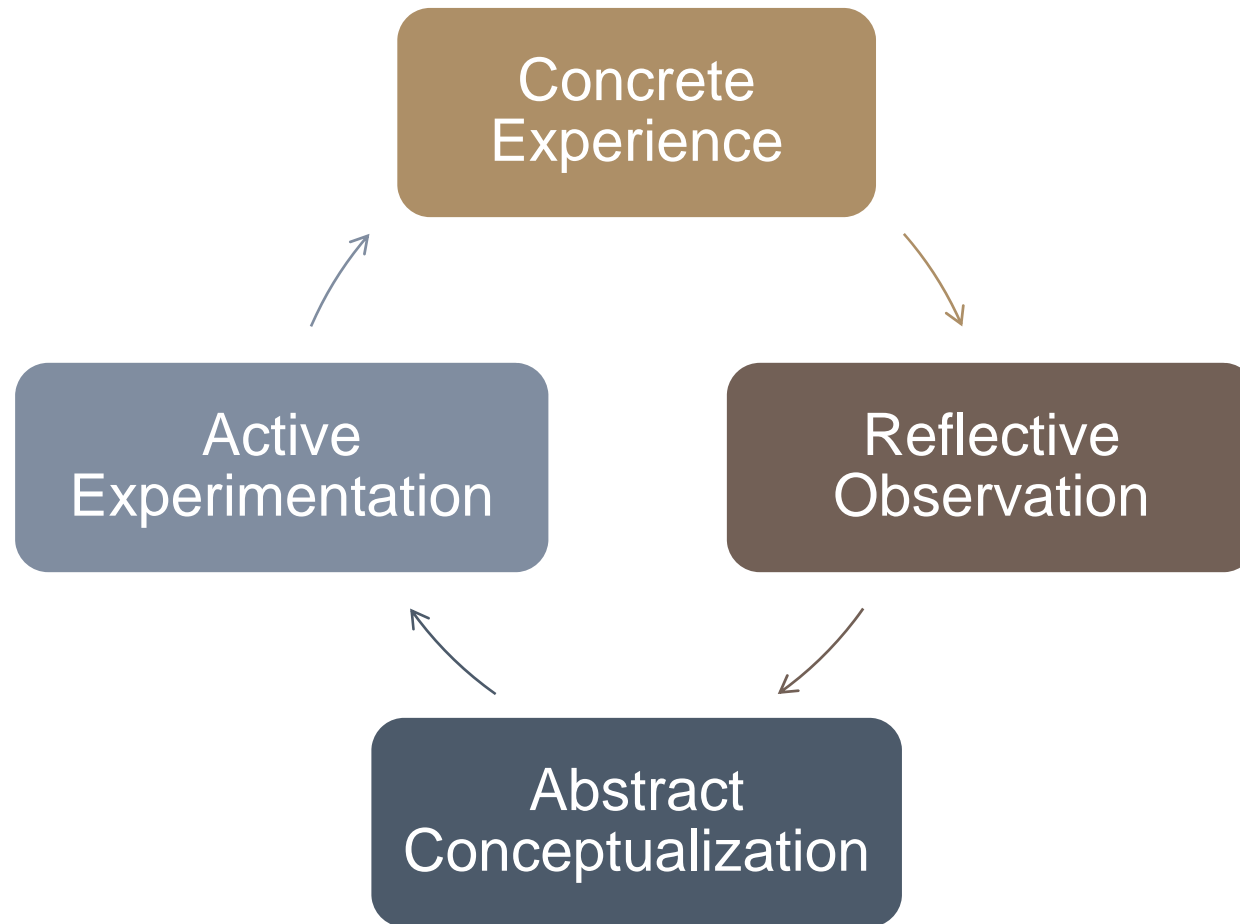


# Differentiated Learning Design in Technical Education



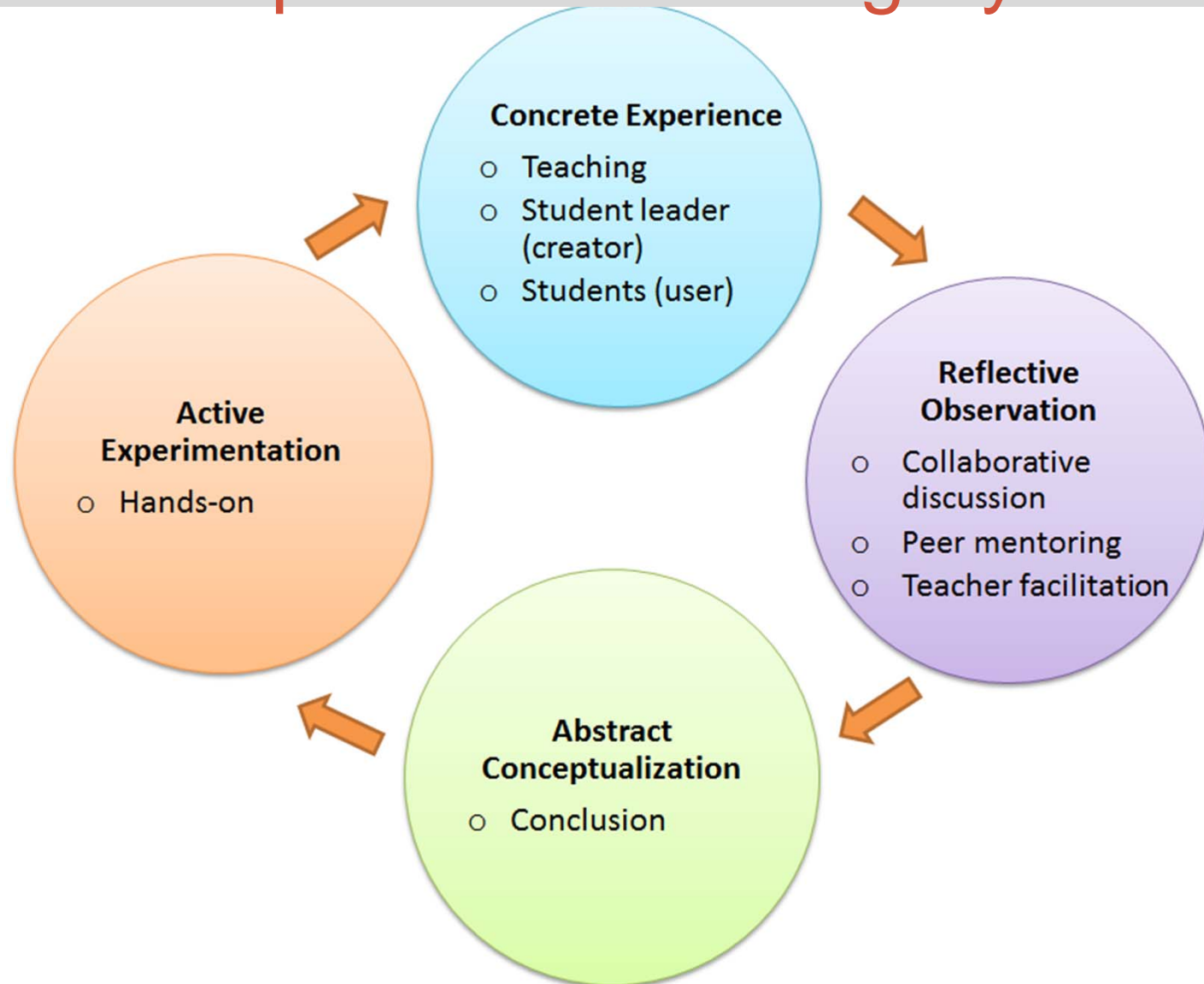


# Kolb's Experiential Learning Cycle





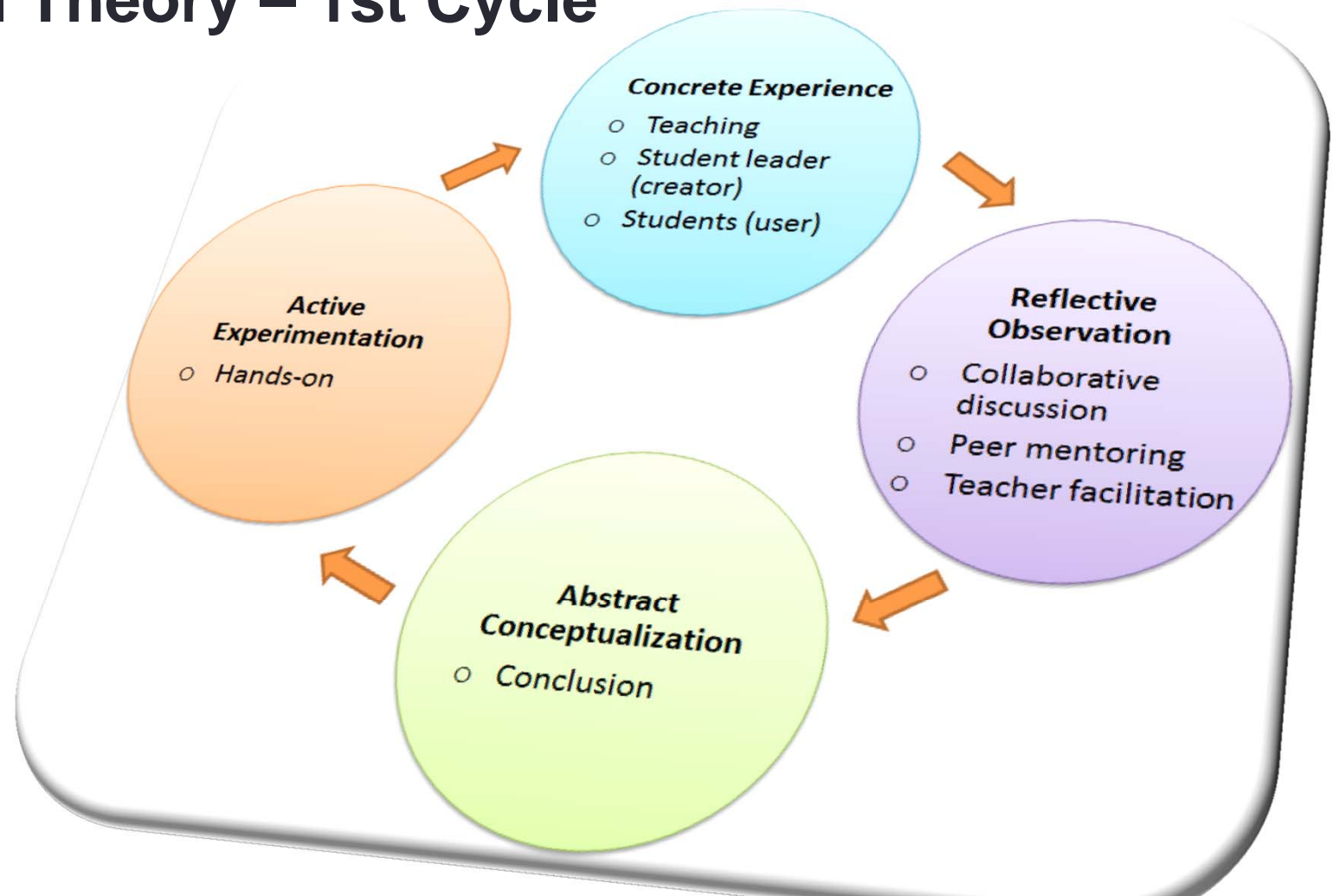
# Adaptation of Kolb's Experiential Learning Cycle





# Adaptation of Kolb's Experiential Learning Cycle

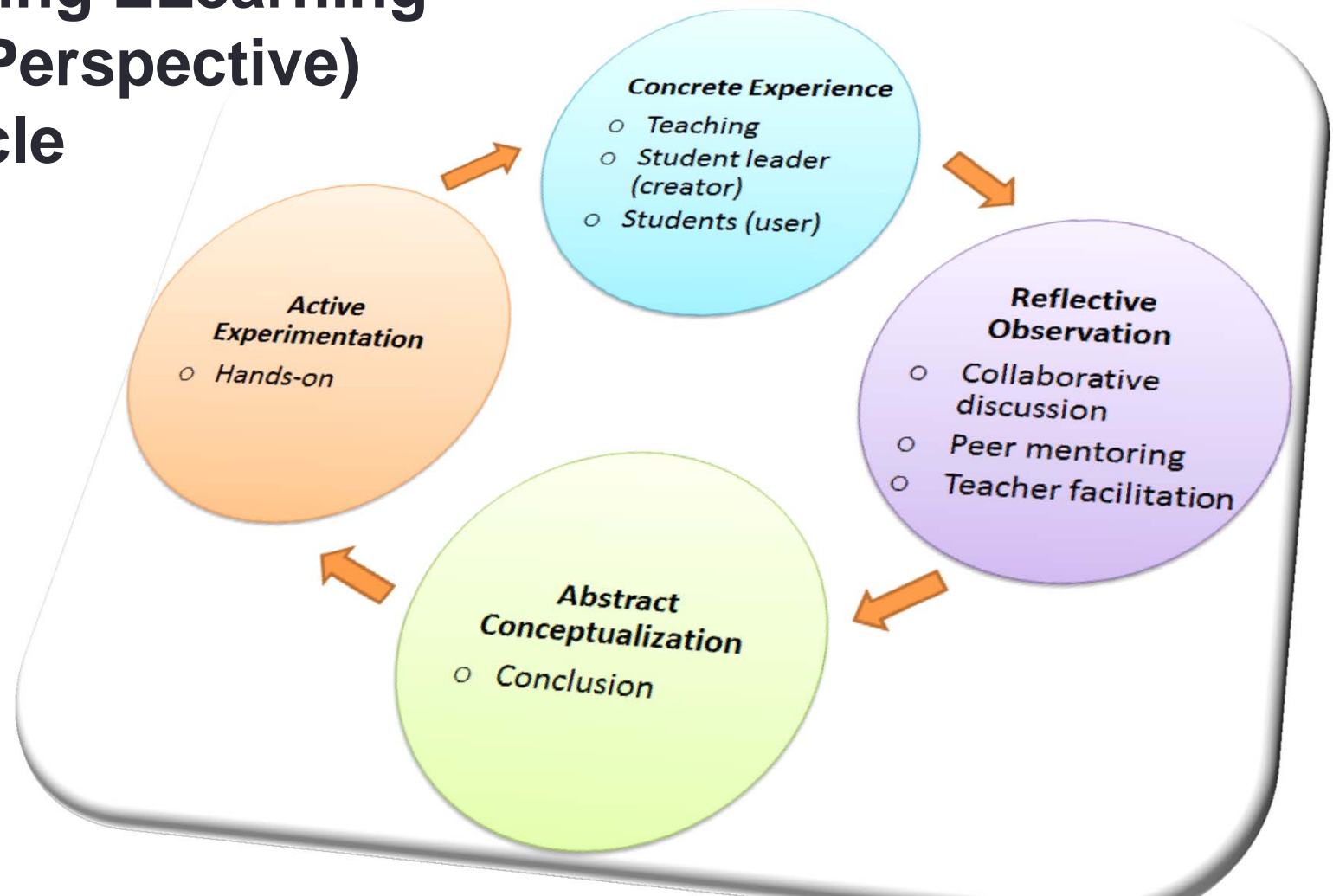
## Incidental Theory – 1st Cycle





# Adaptation of Kolb's Experiential Learning Cycle

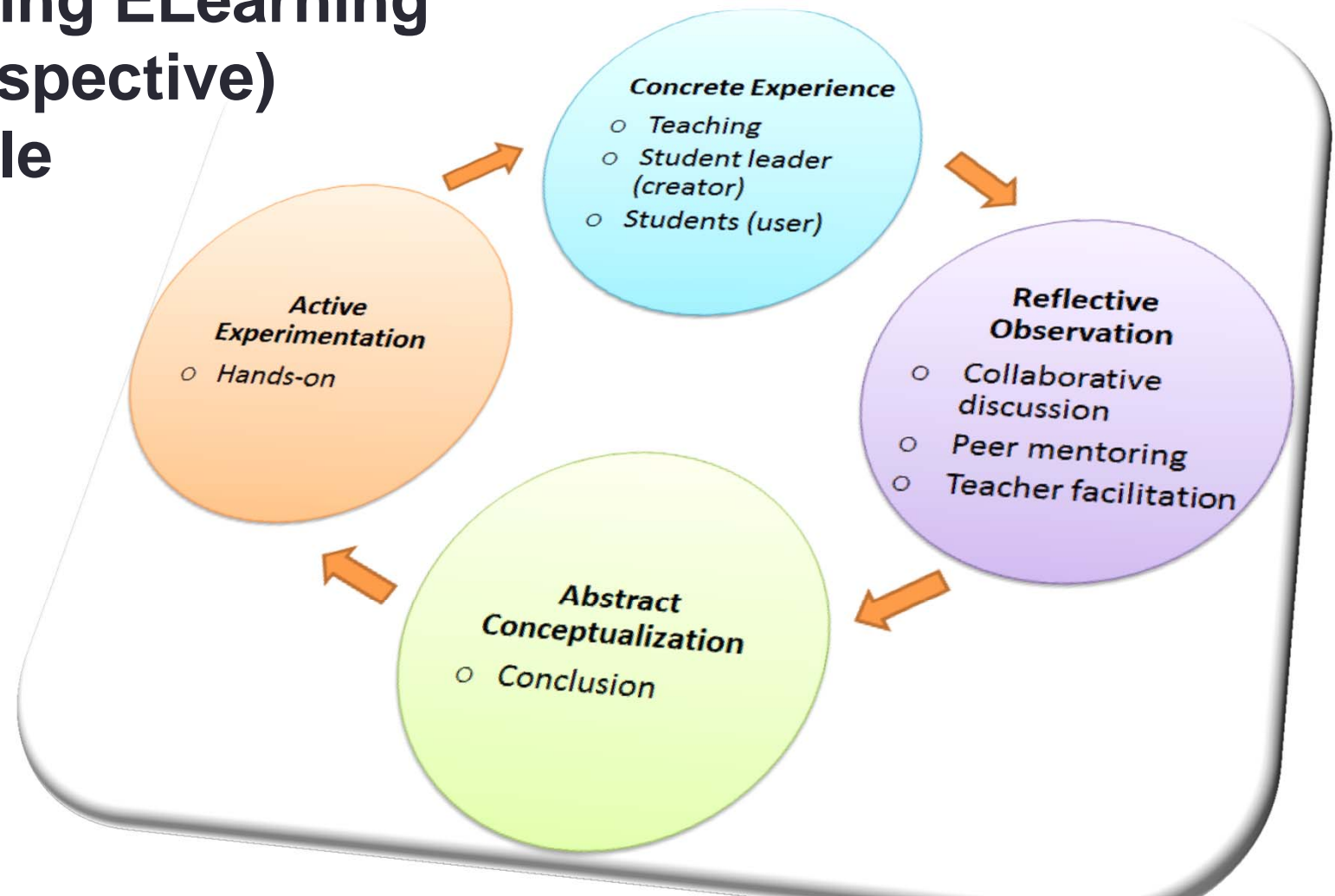
## Empowering ELearning (Creator Perspective) – 2nd Cycle





# Adaptation of Kolb's Experiential Learning Cycle

## Empowering ELearning (User Perspective) – 3rd Cycle





# Survey

| No. | Survey Question   |
|-----|---|
| 1   | <b>This method helps me understand the lesson better.</b>                           |
| 2   | <b>I find that I am able to pay more attention in class.</b>                        |
| 3   | <b>I am able to understand the concept better.</b>                                  |
| 4   | <b>I like to use the eLearning material developed by my classmate for revision.</b> |

Note: Likert Scale

(Strongly Disagree: 1 point; Disagree: 2 points; Undecided: 3 points; Agree: 4 points; Strongly Agree: 5 points)

**Mean = 3.58 points**



# Survey

**“I like to use the eLearning material developed by my classmate for revision.”**

**Highest mean (3.79 points)**



# Conclusion

*Positive peer influence*

*Technology*

*Teacher facilitation*

Goal: strengthen student's learning experience.

Encouraging  
a **caring** and **supportive**  
learning environment.



