## A Critical Review of Artificial Intelligence in Competition Learning



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#### Let's pretend to be a student...

# **Foday's Expectation:** Learning-by-Doing

I'm a STEAM Teacher! Afterall... I believe... I hope so...



#### Here's what you'll find:

- 1. Activities
- 2. Theories
- 3. Discussion



# Objective

### Change your thoughts about Al

# Fluid Mechanics 101

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# Competing with AI

POP

Quiz 1

Please scan the QR Code and finish a Quiz about Fluid Mechanics through Kahoot!

### How do you feel?

# **Unfair?**



**Nervous?** 

#### **Oh! No!?** (懊惱?)



perceiving an imbalance or lack of knowledge in the quiz outcome. the pressure of the game or quiz, and the desire to perform well

did not meet expectations or resulted in a loss.

# Fluid Mechanics 101

assisted by AI

POP

Quiz 2

Please scan the QR Code and finish a Quiz about Fluid Mechanics through Kahoot! AGAIN!!!

. . . . . . . . . .

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#### Show the result that AI got it all correct!

### How do you feel?

# **Supported?**

#### Mercury

Feeling a sense of assistance, guidance, or encouragement from the Al **Inspired?** 

Venus

Experiencing a surge of creativity, enthusiasm

### **Motivated?**

#### Mars

due to the successful outcome and assistance provided by the AI during the quiz

#### What have we just experienced?

#### Teams-Games-Tournament (TGT)

Teams-Games-Tournament (TGT) is an instructional strategy commonly used in education, particularly in the context of competition and cooperative learning.

Teams: Students are divided into small teams Games: The learning material is divided into smaller units or topics, and each topic is transformed into a game. The games are designed to be engaging and interactive, incorporating elements of cor challenge.

Tournaments: After playing the games individually, tea against each other in structured tournaments.



### How to incorporating AI into Competition Learning

**Competitor** provide a challenging and dynamic opponent

### 02 o P

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#### **Teammate** offer suggestions, provide insights

#### Judge

assessing students' performance objectively with absolute fairness, consistency

#### Coach

adapt to individual students' needs to promote selfdirected learning

### Why should we incorporate AI into Competition Learning



The zone of Proximal Developmen t (ZPD) Despite being red, Mars is actually a really cold place

### How AI Enhances Scaffolding in Competition Learning



### How AI Enhances ZPD in Competition Learning



# Who Will Occupy the Future AI Education?



#### We define ALL THE CHARACTERS in our class!!!

#### Limitations

### It's hard to convert multimedia into text file for now.







assisted by AI

Please scan the QR Code and finish a Quiz about Fluid Mechanics through Kahoot! AGAIN!



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#### **Bibliographical References**

- Author (Year). Title of publication. Publisher



# Thanks!

Do you have any questions?

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