Fayol Inc. 0547824419

THIRD TERM WEEKLY LESSON NOTES – B8 WEEK II

		VVEEN II				
Week Ending: 08-09-2023	DAY: Subje		Subject:	: Computing		
Duration: 60mins			Strand: Computational Thinking			
Class: B8	Class Size: Sub Stra		nd: Artificial Intelligence			
Content Standard: B8.4.4.1 Discuss Artificial Intelligence Concepts Indicator: B8.4.4.1.1 Discuss Artificial N and compare intelligence in hu machines						
Performance Indicator: Learners can understand and con machines, highlighting similarities	Core Competencies: CC8.2: CP6.1					
Reference: Computing Curricul	um Pg. 39					
Activities For Learning & Ass	sessment			Resources	Progression	
Revise with learners to review the Share performance indicators and Main (35mins) Brainstorm learners to discuss or various contexts. Ask learners to share their though between humans, animals, and matching three categories: humans, animals. In their groups, learners research.	d introduce to the what intelli- ghts on how achines. Dups and assign oups and assign	the lesson. gence is and its signification intelligence might di gn each group one ces.	ificance in ffer of the	Pictures and Charts	Discussing Artificial Neural Networks (ANN) and compare intelligence in humans, animals and machines	
After research, each group prese similarities and differences in interprocessing information. Guide the discussion by asking que human intelligence? What are the do animals process information described to the discussion of the	ents their find elligence acro and capabiliti uestions such e limitations o	lings to the class, highes the three categories of each intelligen as: What are the stof machine intelligen	ce type in crengths of ice? How			

<u>Assessment</u>

- I. What is intelligence?
- 2. How can we define intelligence in humans?
- 3. List one major similarity and one major difference between human and machine intelligence.
- 4. How does animal intelligence differ from human intelligence in terms of problem-solving?
- 5. Can machines ever truly possess emotions, or will they always mimic them? Explain your answer.

Reflection (10mins)

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

Homework/Project Work/Community Engagement Suggestions

- What is a limitation of human intelligence when compared to machine intelligence?
- In what scenario might an animal have a processing advantage over a machine or human?
- How might understanding the intelligence of animals help in designing better Al systems?

Cross-Curriculum Links/Cross-Cutting Issues

None

Potential Misconceptions/Student Learning Difficulties

None

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Content Standard: B8.4.4.1 Discuss Artificial Intelligence Concepts		Indicator: B8.4.4.1.1 Discuss Artificial Neural Networks (ANN) and compare intelligence in humans, animals and machines			Lesson:	
Performance Indicator: Learners can talk about strong a hologram science and its applica				Core Competencies: CC8.2: CP6.1		

intelligence.

Reference: Computing Curriculum Pg. 39

Activities For Learning & Assessment	Resources	Progression
Starter (5mins)	Pictures and	Discussing
Revise with learners to review their understanding in the previous lesson.	Charts	Artificial Neural Networks
Share performance indicators and introduce the lesson.		(ANN) and compare intelligence in
Main (35mins)		humans, animals and machines
Introduce the terms "strong AI" and "weak AI" and ask if anyone knows the difference.		
Explain the difference between strong AI (AGI) and weak AI (ANI). Strong AI possesses human-like general intelligence, while weak AI performs specific tasks without consciousness or understanding.		
Engage learners in a class debate: "Will we ever achieve strong Al?" Divide the class into two groups: one arguing for the possibility and one arguing against.		
Introduce the concept of holograms and their basic principles.		
Explain how mixed reality (MR) combines physical and digital elements to create immersive experiences.		
Discuss the potential application of holograms in creating 3D mixed reality intelligence, such as virtual assistants or interactive educational tools.		
Divide learners into small groups and provide them with a specific scenario (e.g., designing a holographic interactive learning tool).		
In their groups, learners brainstorm and discuss potential benefits and challenges of using holograms to enhance intelligence and learning.		
Assessment		

- I. Define strong Al.
- 2. What is weak Al?
- 3. List a primary difference between strong Al and weak Al.
- 4. Why might some experts argue that strong AI is a distant or unreachable goal?
- 5. Do you believe that machines with strong Al would have rights similar to humans? Why or why not?

Reflection (10mins)

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

Homework/Project Work/Community Engagement Suggestions

- How does a hologram differ from a regular photograph?
- In what way does mixed reality combine physical and digital elements?
- How could holograms be used to enhance a classroom learning experience?

Cross-Curriculum Links/Cross-Cutting Issues

None

Potential Misconceptions/Student Learning Difficulties

None