MATLAB Programming Section 09: Teacher Guide

Storyline

In this lesson, students will continue to refine their AI models for their final project using the techniques introduced in Section 07 and Section 08. Students will first review the material from those previous lessons in the form of a group activity. Then, the students will have the opportunity to implement the material they reviewed as they review each other's AI model with constructive feedback. Lastly, the students will take time to implement the feedback they received from their peers as they edit their final project.

Main Learning Goal

Students will be working on refining their AI models by reviewing material introduced in the previous 2 lessons and participating in a peer review activity. They will then go through their AI models to determine what changes must be implemented to have a functional AI model.

Focus Question

How can you ensure that the AI model works?

Elicit

How will I engage students and elicit their ideas?

Activity Name and Description	Teacher Moves	Student Moves	Resources
 Reviewing How to Create an AI Model 10-15 minutes The students will be revisiting material from Sections 07 and 08 on how to make an AI model. 	 The teacher will help the students get into small groups. The teacher will instruct the students to create a list of the steps outline from Lesson 7 and answer the questions regarding Lesson 8. Teachers will answer any 	 Students will create a list of the steps outline from Section 7 and discuss their responses with their peers. Students will answer the questions regarding 	Section 07Section 08

Activity Name and Description	Teacher Moves	Student Moves	Resources
	questions that the students might have on the content from the previous lessons.	the material from Section 8 in groups.	

Develop

How will I get students to explore, explain, and develop ideas?

minutes the will • Peer Review • This portion students complete of the lesson find a the tasks involves the partner and outlined	Activity Name and Description			Resources	
students reviewing each other's Al models using the content they reviewed in the Elicit section. The students will be making groups of 2 and complete the following 4 times (each with a different partner): Make groups of two to reviewed groups of two to reviewe to the groups of two to reviewe each other's Al Model. The students will be outlined for them in the to their person for them in the easch with a different to their feedback ve will answer any in their Al to questions Models, them in the in the groups for them in the a different to their feedback ve will answer implement any in their Al Guiding Questions Al	 Peer Review 30-40 minutes This portion of the lesson involves the students reviewing each other's AI models using the content they reviewed in the Elicit section. The students will be making groups of 2 and complete the following 4 times (each with a different partner): - Make groups of two to review each other's 	will help the students find a partner and get into their groups. The teacher will ensure the students are following the tasks outlined for them in the lesson and are providing constructiv e feedback to their peers. The teacher will answer any questions the students	students will complete the tasks outlined for them in the lessons four times, each with a different partner, to review each other's AI Model. The students will provide constructi ve feedback for their peers to implement in their AI Models, using the Guiding	Handout (PDF)	

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Activity Name Description	and	Teacher Moves	Student Moves	Resources
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Deploy

How will I get students to use and apply their ideas to what they've learned?

Description Teacher	or Moyoc	0. 1 . 1/	
Description	ei Moves	Student Moves	Resources
 Action Plan 20-30 minutes Following the Peer Review Activity, students will begin implementing the feedback they received on their final projects. The students will review what their peers had to say in the Peer Review Handout, taking note of suggestions 	The teacher will ensure that the students know what they need to do to implement the constructive feedback they received. The teacher will encourage independent work and help as needed.	The students will be reading through the Peer Review Handouts they received and take note of the suggestions mentioned more than once. The students will then independer	

Activity Name and Description	Toach	er Moves	Student Moves	Resources
mentioned more than once. The students will then have the time to edit their AI Model as a final revision for their final project. The students will submit their revised AI Model to the assignment linked here: Action Plan	•	The teacher will answer any questions the students might have on the feedback they received or how they are to implement that feedback.	tly revise their final projects, using feedback they received in the Peer Review Handout as a guide. The students should ask questions as necessary. The students will then submit their revised final project as they will be presenting them in the following lesson (Section 10).	TRESOUT CES