Instructional Unit Design for Grade 7 English Program Rittiyawannalai School Bangkok, Thailand

Instructional Unit Overview
Designed by Mr. Michael Jhudz Jarin
Unit Focus: Chapter 3 Plants
Grade Level: 7 (Mattayomsuksa 1)
Duration of Unit: 30 hours

L	Learners and Contexts Assessment				
Description of Learners	Mattayomsuksa 1, or Grade 7 equivalent in K-12, students are				
	Thai and are considered second language learners.				
Entry Knowledge or Skills	In the previous unit lesson about cells, students learned the				
	steps of scientific investigation and conducted an experiment.				
	In this plant unit, the laboratory skill will be put to use to				
	conduct more experiments.				
Prior Knowledge of	Before instruction, grade 8 students will take a pre-test to				
Specific Domain	determine their prior knowledge of the plant unit. The				
	performance of laboratory skills will also be evaluated.				
Attitudes Toward Content	Students anticipate performing laboratory experiments in				
	groups and gaining hands-on experience in the science				
	laboratory using Google Translate and online learning				
	resources.				
Academic Motivation	This group of second language learners is highly motivated to				
	achieve high marks in everything they do in class. They will				
	ensure that they understand how many points are allocated to				
Educational and Ability	the specific activity specified by the teacher.				
Educational and Ability levels	The poor comprehension, communication, and laboratory				
levels	skills of students will have an impact on instructional delivery.				
Learning Preferences	Second language learners work best in groups and are most				
Learning I references	engaged when performing laboratory experiments.				
Group Characteristics	Students can expect to work in groups with at least one leader				
Group Characteristics	who can express themselves in both English and Thai. These				
	students are a diverse group. There are students who attended				
	the English program during their primary school years, and				
	there are students who did not.				
L					

Context Analysis – Analysis of Performance Setting						
Social Aspects	Students must exhibit desirable characteristics such as self-					
	discipline, honesty and integrity, eagerness to learn, and					
	dedication and commitment to work.					
Physical Aspects	The lesson will be taught in the classroom, and the experiments will be carried out in the school science laboratory. The learning unit will be delivered face to face while using an e-learning platform called Moodle.					
Relevance	This unit's lessons can be applied at home as they care for their own plants.					
Adaptability and	Students will be exposed to inquiry-based teaching instruction in					
Accessibility	the classroom using the 5-E learning model with corresponding					
	assessment techniques in each part of the learning model.					

	Goals and Standards					
Essential Questions	1) How do plants change as they grow?					
	2) How do plants provide for their basic needs?					
	3) How do plants undergo photosynthesis?					
	4) What are the functions of each plant part?					
	5) How do plants reproduce?					
	6) How and why do plants adapt to their surroundings?					
	7) How do seeds move from one place to another?					
	8) Why does traveling help seeds to grow?					
	9) What is the role of modern technology in plants?					
Goals	1) Understand photosynthesis.					
	2) Experiment to find and explain the essential factors for					
	photosynthesis of plants.					
	3) Explain the importance of photosynthesis on living things					
	and the environment.					
	4) Analyze the transport system in plants.					
	5) Experiment and explain groups of cells involved in					
	transportation of water and nutrients in plants.					
	6) Analyze the sexual and asexual reproductive systems of					
	flowering plants.					
	7) Explain sexual reproduction processes of angiosperms and					
	plant asexual reproduction processes.					
	8) Understand the structures of a flower and their functions.					
	9) Experiment and explain floral structures involved in plant					
	reproduction.					
	10) Analyze pollination.					
	11) Understand the development of fruits and seeds in plants.					

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	 12) Understand the dispersal of seeds and fruits in plants. 13) Synthesis the concept of germination of seeds 14) Realize the importance of nutrients that affect plant's life and its growth. 					
	-					
	15) Understand plant propagation and its application.16) Understand vegetative reproduction methods and it application.					
	17) Realize the importance of plant tissue culture					
	and its application.					
Alignment with	Learning Standards	Content Area				
Standards/Frameworks	M.1/6 Indicate the essential factors of	Photosynthesis				
Standards/ Frameworks	 photosynthesis and the outcomes of photosynthesis based on empirical evidence. M.1/7 Explain the importance of photosynthesis of plants that affects living things and environment. M.1/8 Realize the values of plants that impact on living things and environment by planting, watering, and looking after plants in your school and community. M.1/9 Describe the features and functions of xylem and phloem. M.1/10 Draw a diagram describing the direction of transportation in xylem and 	 Photosynthesis Transport System in Plants 				
	phloem of plants.	N C 1				
	M.1/11 Explain sexual and asexual reproduction in flowering plants.	 Sexual reproductive system of flowering plants 				
	M.1/12 Explain the structure of flowers	Pollination				
	involving pollination and describe fertilization in flowering plants, formation of fruits and seeds, seed dispersal and germination of seeds. M.1/13 Realize the importance of animal pollination of flowering plants by not killing them.	 Development of fruits and seeds in plants Dispersal of seeds and fruits Germination of seeds 				
	M.1/14 Explain the importance of some nutrients that affect plant's life and its growth. M.1/15 Appropriately choose the right fertilizer and right amount to plants in the given situations.	 Mineral requirements in plants 				

M.1/16 Choose an appropriate	\triangleright	Asexual
reproduction process that suit to human		reproduction of
wants by applying the knowledge of plant		plants
propagation.		
M.1/17 Explain the importance of plant		
tissue culture technology and the		
application of its usefulness in various		
fields.		
M.1/18 Realize the benefits of plant		
propagation by applying the knowledge		
in daily life.		

Performance Objectives (Skill, Condition, Criteria)

Students are expected to create a "Miniature garden" (*condition*) in which they will demonstrate their understanding of how plants undergo photosynthesis and adapt to their environment using their scientific investigation skills (*skill*). This activity takes four to five hours and must be completed entirely within the classroom. The activity will be graded based on the appropriateness of the materials used in the construction of the miniature garden, the thoroughness of their responses to the questions, and their overall presentation in front of the class (*criteria*).

After the lesson, this activity is part of the end – product activity. However, instructions will be provided prior to the lesson to identify group members, prepare materials to be used, and plan every after class.

Instructional Activities and Assessment Methods

In this learning unit, students will be active participants in the learning process, with the teacher serving only as a facilitator. The teaching strategy to be used is inquiry-based instruction, in which students will be exposed to a series of questions to practice their critical and analytical skills. Once these skills have been developed, they will conduct experiments in the laboratory to apply scientific investigations, and most importantly, they will be able to create a laboratory report for each experiment they have conducted. Each activity will include an assessment technique to ensure that they can demonstrate the necessary skills. The assessment techniques are background knowledge probe (*assessing prior knowledge, recall, and understanding*), concept maps (*assessing skill in synthesis and creative thinking*), documented problem solutions (*assessing skill in problem solving*), student-generated test questions (*assessing skill in application and performance*), course-related self-confidence surveys (*assessing learner attitudes, values, and self-awareness*), interest/knowledge/skills checklists (*assessing students' self-awareness as learners*),

electronic survey feedback through google forms (*assessing learner reaction to instruction*), and lastly is group work evaluation (*assessing learner reactions to class activities*).

Second learners work best in groups, and instruction should be introduced earlier to avoid consuming too much time during the activity itself. Cooperative learning, hands-on activities, presentation, and performance are the overall instructional strategies.

Introduction/Pre-instruction:

This learning unit will be introduced to my students by setting expectations. I will provide the unit objectives so that they are aware of what they will accomplish during and after the lesson. I'll ask them to establish their expectations of me as their teacher. I will carefully discuss the details of each activity, such as scientific investigation rules, question making, groupings, laboratory performance, and, most importantly, their honest response to each strategy I will employ.

Instructional Activities and Sequence:

Learning Goals	Content Area	Teaching	Activity	Instruction	Assessment
		Hours			Technique
1) Understand	Photosynthesis	7 hours	Testing for the	Students will	Documented
photosynthesis.			presence of	be group into	problem
2) Experiment to			starch in	6 with 5	solutions
find and explain			leaves (lab	members	(students track
the essential			experiment)	each group.	in a written
factors for				Follow the	format the steps
photosynthesis of			Investigating	guidelines	they take to
plants.			the factors	given for the	solve problems
3) Explain the			required for	investigation	as if for a
importance of			photosynthesis	process.	"show & tell")
photosynthesis on			(The presence		
living things and			of carbon	Create a	Laboratory
the environment.			dioxide, the	laboratory	report category
			presence of	report about	(Experienced,
			sunlight, and	of the second	Competent,
			the presence	experiment.	Intermediate,
			of		Transition,
			chlorophyll-	Present the	Beginning,
			lab	highlights in	and
			experiment)	front of the	Unacceptable
				class.	level)see rubric
4) Analyze the	Transport	7 hours	Perform a	Students will	Documented
transport system	Systems in		laboratory	be group into	problem
in plants.	Plants		experiment.	6 with 5	solutions
5) Experiment and			1. Studying	members	(students track
explain groups of			the pathway of	each group.	in a written
cells involved in			water in a	Follow the	format the steps
transportation of			plant	guidelines	they take to
water and			2. Studying	given for the	solve problems
nutrients in			the transport	investigation	as if for a
plants.			of synthesized	process.	"show & tell")
			food		

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			substances via	Discuss the	
			the phloem	documented	
			3. Identifying	solution in	
			the locations	front of the	
			of xylem and phloem	class.	
6) Analyze the	Sexual	1 hour	Venn diagram	Create a	Diagnostic
sexual and	reproductive		analysis of	Venn	learning logs
asexual	system of		sexual and	diagram to	(Students write
reproductive	flowering plants		asexual	compare	to learn by
systems of			reproductive	sexual and	identifying,
flowering plants.			systems of	asexual	diagnosing, and
7) Explain sexual			flowering	reproductive	prescribing
reproduction			plants	systems of	solutions to
processes of				flowering	their own
angiosperms and				plants	learning
plant asexual				(individual	problems)
reproduction				activity)	
processes. 8) Understand the			Perform the	Do the	Venn diagram
structures of a			laboratory	laboratory	will be
flower and their			activity and	experiment	evaluated using
functions.			create a table	and show the	the rubric
9) Experiment			to show the	parts and	indicated in the
and explain floral			parts of a	functions of a	appendix part.
structures			flower and	flower.	11 1
involved in plant			their		
reproduction.			functions.	The correct	
				answer will	
				be flashed on	
				the projector	
				to check the	
				answers of	
		0.1	X Y *	each group.	
10) Analyze	Pollination	9 hours	Venn diagram	Group	Application
pollination.	David		analysis self-	activity	cards (students
11) Understand the	Development of fruits and seeds		pollination and cross	written in an	generate
development of fruits and seeds in			and cross pollination	A4 paper showing the	examples of real-work
plants.	in plants		pomnation	similarities	real-work applications for
piants.			Laboratory	and	important
12) Understand the			experiment	differences of	principles,
'	Dispersal of				
dispersal of seeds	Dispersal of seeds and fruits		-	self and cross	generalizations.
dispersal of seeds and fruits in	-		observing the development	self and cross pollination.	generalizations, theories, or
-	-		observing the		-
and fruits in	-		observing the development		theories, or
and fruits in	-		observing the development of pollen tubes		theories, or
and fruits in plants.	seeds and fruits		observing the development of pollen tubes in different percentages of sugar	pollination.	theories, or
and fruits in plants. 13) Synthesis the concept of germination of	seeds and fruits Germination of		observing the development of pollen tubes in different percentages of	pollination. Summarize the concept of germination	theories, or
and fruits in plants. 13) Synthesis the concept of	seeds and fruits Germination of		observing the development of pollen tubes in different percentages of sugar solutions.	pollination. Summarize the concept of	theories, or
and fruits in plants. 13) Synthesis the concept of germination of	seeds and fruits Germination of		observing the development of pollen tubes in different percentages of sugar	pollination. Summarize the concept of germination	theories, or

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14) Realize the importance of nutrients that affect plant's life and its growth.	Mineral Requirements in Plants	1 hour	the conditions necessary for the germination of green bean Video Lesson in e-learning.	Watch the video posted in e-learning and answer the guide questions provided	Yes/No survey to collect data of students about the instructional material
 15) Understand plant propagation and its application. 16) Understand vegetative reproduction methods and its application. 17) Realize the importance of plant tissue culture technology and its application. 	Asexual reproduction in plants	3 hours	Lab activity: Asexual propagation.	Conduct the experiment about leaf cutting and leaf bud cutting and then make a laboratory report.	Course related self-confidence survey (Students complete an anonymous survey indicating their level of confidence in mastering the course material) Group work evaluation (Students complete a brief survey about how their group is functioning and make suggestions for improving the group process)

Assessable End Product/Activity:

The end result is a STEM activity involving the creation of a miniature garden. Students will be surprised at how little water plants require in a closed system after participating in this activity. It gives them the impression that these plants can exist entirely on recycled air, water, and nutrients. This encourages them to investigate how plants recycle air, water, and nutrients when they are cut off from their surroundings.

Overall Assessment Method Overview

Learners' understanding of key concepts and skills will be assessed through their performance in each activity and their final requirement, which is to create a miniature garden and present it in front of the class. Feedback will be provided in every subsequent session of the class and will be discussed in front of the class before we proceed to our next activity and lesson, with the guidance of my rubrics intended for every experiment and project making as well. Short activities such as Venn diagrams, questioning, and video learning resources will receive immediate feedback. As for me, I have included assessment techniques in the instructional activities to determine whether the strategy used will be repeated or needs to be revised. Formative and summative assessments will be used to ensure that students understand the key concepts of the lesson, these are short quizzes (short-answer questions, concept mapping and so on) and project portfolio and performance task.

The Value of Technology

Because of the recent pandemic, our school has provided us with an e-learning platform called Moodle. This platform has a significant impact on the ease with which lessons are delivered. Because students can easily access the system using their log in information, and teachers can creatively upload learning resources to be used in the teaching and learning process. The e-learning platform will be used as supplemental resources in this unit to deliver advanced instruction and another related instructional video. Indeed, technology assists both students and teachers in making the learning environment more understandable and reliable.

Implementing the Unit

This learning unit will be implemented in the upcoming semester, which marks the beginning of our new school year in Thailand. This plant-related topic is one of the first chapters covered in the first term of the school year. The laboratory and handouts are readily available as learning resources. The learning unit must be completed by the end of July, before the midterm examination.

Implementation Reflection Tool

(this will be accomplished upon completion of the learning unit)

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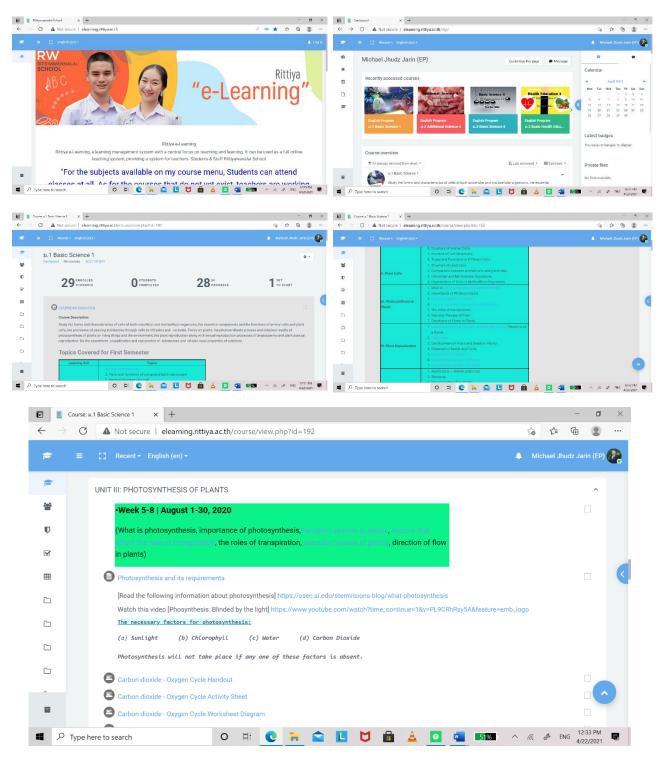
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Appendix:

The e-learning resources included in the instructional design are depicted in the screenshots below.



Rubrics for Laboratory Skills and Performance

Category	Criteria
Experienced	✓ Throughout the lab procedure, excellent technique was used.
Level	 Procedures were well-planned and carried out.
(100 points)	\checkmark Data and observations were accurately, descriptively, and completely recorded,
	with no major errors.
	\checkmark Calculations and data analyses were carried out in a clear, concise, and accurate
	 manner, using the correct units. ✓ Graphs were drawn accurately and neatly and were clearly labeled if necessary.
	 Graphs were drawn accurately and nearly and were clearly labeled in necessary. Recognized the connections between observations and related concepts; expressed
	understanding clearly and completely.
	 The answers to the questions were complete and written correctly and precisely.
Competent	✓ During the lab procedure, no errors in technique were observed; procedures were
Level	well-planned and carried out in an organized manner.
(90 points)	\checkmark With only minor errors, data and observations were recorded accurately,
	descriptively, and completely.
	\checkmark The calculations and data analyses were done correctly, with the correct units and
	calculations, but the work may have been slightly unclear or disorganized.
	 Graphs were drawn accurately and neatly as needed. Recognition of the connections between observations and related concepts was
	 Recognition of the connections between observations and related concepts was effectively expressed.
	\checkmark Answers to questions were written correctly and accurately, but minor
	misunderstandings may have occurred.
Intermediate	✓ During the lab procedure, only minor technique errors were observed.
Level	\checkmark The procedures were followed correctly, but they may have been a little
(80 points)	disorganized.
	\checkmark The data and observations were accurately recorded, with only minor errors or
	omissions.
	 The calculations and data analysis were done correctly, but there were a few minor errors, either in the calculations or in the application of the correct units.
	 ✓ Graphs were drawn accurately and neatly as needed.
	 Recognition of the connections between observations and related concepts was
	expressed satisfactorily.
	\checkmark The report's reasoning was occasionally weak, but only in a few places.
	\checkmark Answers to most questions were correct, but there are some misunderstandings or
	minor errors.
Transition	 During the lab procedure, only a few technique errors were observed, but they could
Level (70 mainta)	have been significant.
(70 points)	 Procedures may not have been well-planned or may have been carried out in an unorganized manner.
	\checkmark Data and observations were adequately recorded, with only minor errors or
	omissions.
	\checkmark The calculations and data analysis were done correctly, but there were a few minor
	errors in the calculations and in applying the correct units.
	✓ If graphs were required, they were drawn properly.
	✓ Was able to recognize connections between their observations and related concepts,
	but this understanding was expressed in a very weak way. ✓ Throughout the report, the reasoning was generally poor.
	 ✓ Throughout the report, the reasoning was generally poor. ✓ Some answers to questions were incorrect due to misunderstandings, minor errors,
	or insufficient data.
Beginning	 ✓ Several serious technique errors were observed during the lab procedure.
Level	\checkmark Procedures were not well-planned and were carried out in an ad hoc manner.
(60 point)	✓ Most data and observations were adequately recorded, but with several significant
	errors or omissions.
	✓ Calculations and data analysis were done incorrectly, but the correct units were
	used most of the time.
	✓ If graphs were required, they were drawn properly. Was unable to recognize connections between their observations and the related concepts; there was no
	expression of understanding in the report.
L	expression of understanding in the report.

	√	The report may have contained logical errors, and it may have been disorganized and unclear.
	\checkmark	Some of the responses to questions were incorrect or poorly written.
Unacceptable	√	All the work was deplorable.
Level	\checkmark	There were no responses that were relevant to the lab, and major components of the
(0point/Repeat)		lab were missing.

Modified from (Holt, Rinehart, & Winston, Scoring Rubric for Skills Practice in Lab)

Assessment Rubric for Venn Diagram

Category	4 Points	3 Points	2 Points	1 Point
Similarities	Student includes four or more facts that are similar.	Student includes three facts that are similar.	Student includes two comparable facts	One similar fact is included by the student.
Differences	Student includes four or more distinct facts for each topic.	Student includes three distinct facts for each topic.	Student includes two distinct facts for each topic.	Student includes one or no distinct facts for each topic.

Grading Breakdown

8 points (100%)	4 points (80%)	0 point (60%)
7 points (95%)	3 points (75%)	
6 points (90%)	2 points (70%)	
5 points (85%)	1 point (65%)	

Rubrics for Student Generated Test Questions:

Category	Great (5 points)	Fair (3 points)	Poor (1 point)
Number of questions	Student has 10 questions	Student has 6 questions	Student has an inadequate number of questions
Test questions	All questions are clear & relate to all parts of lesson discussed. Each part of activity and discussion is covered.	Most questions are well written and have a clear relation to activities and discussion.	Questions do not relate to the activities and discussion
Level of questions	Students must think to answer all questions, are higher order thinking questions.	Some variety in thinking levels and several higher levels of thinking.	Question on test do not provide a variety of thinking levels, and most are lower levels of thinking or too easy for your lesson.
Spelling, grammar, and clarity	No misspellings or grammar errors. Students know exactly what they are supposed to do to answer the question.	Some misspelled questions, 1-2 grammatical errors, questions mostly clear.	Misspelled questions, grammatical errors, and/or unclear questions. Students do not know what they are expected to do from the question.

Modified from (TGIANFALA, Irubric: Student generated questions rubric 2021)

Rubrics for Group	Activity			
Skills	4 Advanced - Exceeds expectations	3 Competent - Meets expectations	2 Progressing - Does not fully meet expectations	1 Beginning - Does not meet expectations
Contributions, Attitude	Always willing to help and do more. Routinely offered useful ideas. Always displays positive attitude.	Cooperative. Usually offered useful ideas. Generally, displays positive attitude.	Sometimes cooperative. Sometimes offered useful ideas. Rarely displays positive attitude.	Seldom cooperative. Rarely offers useful ideas. Is disruptive.
Cooperation with Others	Did more than others-highly productive. Works extremely well with others. Never argues.	Did their part of the work-cooperative, Works well with others, rarely argues	Could have done more of the work-has difficulty. Requires structure, directions, and leadership. Argues sometimes.	Did not do any work- does not contribute. Does not work well with others. Usually argues with teammates.
Focus, Commitment	Tries to keep people working together. Almost always focused on the task and what needs to be done. Is very self- directed.	Does not cause problems in the group. Focuses on the task and what needs to be done most of the time. Can count on this person.	Sometimes not a good team member. Sometimes focuses on the task and what needs to be done. Must be prodded and reminded to keep on task.	Often is not a good team member. Does not focus on the task and what needs to be done. Let others do the work.
Team Role Fulfillment	Participated in all group meetings. Assumed leadership role as necessary. Did the work that was assigned by the group.	Participated in most group meetings. Provided leadership when asked. Did most of the work assigned by the group.	Participated in some group meetings. Provided some leadership. Did some of the work assigned by the group.	Participated in few or no group meetings. Provided no leadership. Did little or no work assigned by the group.
Ability to Communicate	Always listens to, shares with, and supports the efforts of others. Provided effective feedback to other members. Relays a great deal of information–all relates to the topic.	Usually listens to, shares with, and supports the efforts of others. Sometimes talks too much. Provided some effective feedback to others. Relays some basic information- most relates to the topic.	Often listens to, shares with, and supports the efforts of others. Usually does most of the talking– rarely listens to others. Provided little feedback to others. Relays very little information–some relates to the topic.	Rarely listens to, shares with, or supports the efforts of others. Is always talking and never listens to others. Provided no feedback to others. Does not relay any information to teammates.
Correctness	Work is complete, well organized, has no errors and is done on time or early.	Work is generally complete, meets the requirements of the task, and is mostly done on time.	Work tends to be disorderly, incomplete, not accurate, and is usually late.	Work is generally sloppy and incomplete, has excessive errors and is mostly late or not at all.
Total Score				

Yes or No Survey for Instructional Video Used

	Content		
	Read the following questions carefully. In these questions, there are only two options. Select only one option.		
5-minute Yes/No Survey	Is the instructional video relevant to the textbook topic? *		
This survey is designed to help you evaluate the video "Photosynthesis in plants [Biology basics for children" that was shown in class. Your honest feedback will assist the teacher in creating or finding a more effective and engaging instructional video for use in the classroom. Your responses are private and should be kept anonymous. This survey is divided into four (4) sections: content (how ideas are presented and their relevance to the class topic), pacing (the rate of speech or the speed at which the speaker talks in the instructional video), graphics and sound tools (how color and sound affect your learning), and a suggestion section (optional) if there are another things you want to add for the improvement of selecting the instructional video.	Yes No		
	Is the instructional video clear about the goal and context? *		
Next Page 1 of 5 Never submit passwords through Google Forms.	Yes No		
This content is neither created nor endorsed by Google. Report Abuse - Terms of Service - Privacy Policy			
Are the concepts simple to grasp? *	Is the video at the appropriate level of comprehension for you? *		
Yes	Yes		
No No	No		
Is it easy to understand the vocabulary words used in the instructional video? *	Does the instructional video help you understand the information in the textbook? *		
Yes	Yes		
No No	□ No		
	Pacing		
Does watching this instructional video make you feel more confident in explaining the concept on your own? *	Read the following questions carefully. In these questions, there are only two options. Select only one option.		
Yes			
No	Is the speaker's speaking speed in the video understandable? *		
	Yes		
Does the instructional video hold your interest? *	No		
Yes	Is the speaker in the video speaking fast? *		
No No			
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Full details at <u>https://docs.google.com/forms/d/1F-</u> NKrEIzKX5es0FBQ67jyXFwHuZIhvxaYB9eN10nrXs/edit?usp=sharing