Student Focused Instructional/Content Standard

Name of Content Standard: MD College and Career Ready Reading Standards for Social Studies, 10-12.

Standard: RH.11-12.7 Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, as well as in words) in order to address a question or solve a problem.

Name of Content Standard: College, Career, And Civic Life (C3) Framework For Social Studies State Standards

Standard: D2.Eco.3.9-12. Analyze the ways in which incentives influence what is produced and distributed in a market system.

Teacher Focused Professional Standards:

Name of Professional Standard: Danielson Framework Components

Description of standard: **Component 3b: Using Questioning and Discussion Techniques** Questions of high-quality cause students to think and reflect, to deepen their understanding, and to test their ideas against those of their classmates. When teachers ask questions of high quality, they ask only a few of them and provide students with sufficient time to think about their responses, to reflect on the comments of their classmates, and to deepen their understanding.

Central Focus / Essential Question

How do entrepreneurs figure out at what price they should sell their goods and services?

Lesson Objective

By the end of this lesson, students will be able to explain the Law of Demand, or how price influences customers' willingness to purchase a good or a service, by graphing and interpreting a demand curve and schedule.

Formative Assessment:

- Do-Now, teacher walks around, checking on review and preview question, identifying and encouraging students with well-considered answers to share.
- Law of Demand discovery examples, students write into notes, class discussion in which teacher prompts students to explain why/how they know.
- Demand curve worksheet, teacher walks around checking student work, especially the prediction, Law of Demand sentence frames, and price identification.
- The demand shift sentence frames are formative extensions to preview following lesson.
- Think-pair-share about the Law of Demand before students go to summative.

Summative Assessment:

Exit ticket explaining the Law of Demand and providing an example. Holistic grade: 1 point each for describing an inverse relationship between price and demand, applying the Law of Demand to a real-life example that illustrates the inverse relationship between price and demand, and for using their own words. 2 points for identifying an unlabeled demand curve.

Academic Language Demands	Academic Language Support
Vocabulary and/or Symbols	Teacher will ask students to make
Law of Demand	connections to the word "law" in other fields.
Quantity	The Law of Demand is illustrated with
Price	symbols.
Demand	A graph is a visual of the demand curve, a
Demand schedule	table is a visual of the schedule.
Demand curve	Visuals and an acronym cue factors of
Factors of production	production.
	Quantity and price are incidental vocabulary
	terms. These will be labeled, and students

	will hear "how many" and "how much money" multiple times as they graph.
Language Function (select one)	Sentence frames will help students explain an inverse relationship in academic
graph.	language.
	Arrows will also cue that relationship.
	Teacher will model language with first graph.
Syntax and/or Discourse	The teacher will supply sentence frames for
Students will need to be able to communicate an inverse relationship.	inverse relationships and demand curve shifters.
	The summative will not require students to
	use the exact academic formula, but instead
	ask students to use their own words, so students will also hear the relationship.

Instructional Materials: 15 Do-Now note and vocabulary 17 copies of demand curve work Red and blue colored pencils (p Student phones or devices, prov student remembers to bring thei	/ sheets ksheets rovided by teache vided by students. r computer, so stu	er) . Laptops are school-issued, but not every udents are allowed to use their phones.	
Technology Integration			
 What technology will be used? Electronic whiteboard Student phones or devices to access Schoology. 	Who is using it? • Teacher • Students	 Why is it appropriate? Students need to see a model of how to graph. Slides also allow for more visual aids such as images. Putting assessments on Schoology allows students to complete them on their own time. They are allowed two tries to repair misunderstandings and add a formative aspect to the summative. Schoology also keeps all resubmissions in one place. 	
Management Considerations			
Transitions Some transitions are signaled by a bell, others verbally. The final assessment is signaled by the teacher writing the name of the assessment in red ink on the board in the same place that it is always written. A new slide also signals transitions.			
Materials Students should pick up Do-Nov worksheets, and pencils as they Students/teacher will pass arour know to always keep their Lesso	w Lesson Informativ come in. nd a basket to turn on Information and	tion and Notes sheet, demand curve n in demand curve worksheets. Students d Notes sheet as guizzes are open-book.	
 Behavior Management (individuals as well as groups of students) Students will be reminded that they will not need to access personal devices for this lesson until the end of class. A private, neutral verbal reminder or a redirection will be 			

issued for students who have their phone out. If this does not work, students will be asked to charge their phone on the wall.

• Students are chronically late to class. The school policy is that they need a pass from the office to enter class after the bell rings, which also alerts parents and guardians, but tardiness is not to impact grades. The do-now ensures that instructional time is not wasted for students who are on time, but does not penalize students who are tardy. This period of time also allows for a moment of personal connection between the teacher and students.

Instructional	Approx.	Procedure
Sequence	Time	
Planned	15-25	Do-Now:
Beginning:		• Students copy down lesson objective from board and answer the
How will you		review and preview questions independently.
engage		• Teacher floats around with attendance sheet, commenting on do-
students		now work, welcoming each student, encouraging students with
(including		interesting answers to contribute to class discussion.
activation of		Review question: Categorize items into Factors of Production.
prior knowledge)2		Preview question: Best guess: How do entrepreneurs figure out at
kilowieuge):		what price they should sell their goods and services?
		Do-Now Review and Preview Debrief:
		• Teacher leads review, basing time spent on review on informal
		assessment of student work during the do-now,) students
		contribute answers and explain why.
		I eacher introduces first essential question "How do
		entrepreneurs figure out at what price they should set their
		of essential questions that the entrepreneur needs to answer
		 Students contribute best quesses teacher bigblights interesting
		guesses without judgement, seques to "they have to figure out
		the customer demand. How much of my product are people
		willing and able to buy and for what price?"
Development	LAI: 30	Learn About It
of New	minutes	• Teacher introduces topic by underlining key terms from objective,
Learning	TI: 20	introducing key vocabulary student are responsible for learning,
(Clearly		which is routine.
explain		 Teacher introduces definition of demand and then projects
		discovery examples, students write answers in notes.
		• Students share answers and explain their reasoning, prompted
and how they		by teacher.
are		• Students represent their discovery answers visually with pictures
connected or		and then verbally by speaking to a partner about what they
scaffolded.)		discovered.
,		• Teacher introduces Law of Demand, students share words they
		associate w/law. Expecting: can't be broken, law of gravity, etc.
		Teacher explains that economists call this a law because it is
		almost always true, just like a scientific law, and it can't be
		broken, like a legal law. This discussion sets up the later point
		that the demand curve always slopes down. That is, the demand
		curve always looks like the curves the students will graph.
		• Teacher projects demand curve worksheet and models how to
		plot the demand curve for snowballs on a hot day, using data

		from student survey, leads students through next three
		questions.
		Try It
		• Students complete a demand curve independently with a second
		set of data about snowball demand in the winter and complete the
		remaining questions, which are modeled off of the first three.
Enrichment		Students who finish early should answer the extension question on
How will you		the worksheet:
challenge		1. Students are asked to compare the two graphs to set up the
students who		next day's lesson.
nave		2. A demand curve shows that the greatest number of customers
demonstrated		that good. This is a big problem for the coller. What are some
mastery?		things the seller might do to fix the problem?
		If little review is needed at the beginning of class, the teacher will
		use questioning to explore the enrichment questions.
Remediation		Teacher walks around during the Try-It, asking clarifying questions,
How do you		prompting students to explain their answers, answering questions,
assist		and will insert whole class correction or explanation if enough
students who		students miss an answer or are struggling. Students are also
need		encouraged to raise their hand if they need help.
additional		
support?		
Planned	15	Students respond in an exit ticket in which they explain the Law of
Ending or		Demand as if they were explaining it to a friend and include their
Closure:		own real-life example that demonstrates the Law of Demand. They
Learner-		also identify a demand curve.
centered		
summary of		
content		
related to		
lesson		
objective		
applicable)		
related to lesson objective Homework (if applicable)		

Day 2: Demand Shifters

Student Focused Instructional/Content Standard

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Name of Content Standard: College, Career, And Civic Life (C3) Framework For Social Studies State Standards

Standard: D2.Eco.3.9-12. Analyze the ways in which incentives influence what is produced and distributed in a market system.

Teacher Focused Professional Standards:

Name of Professional Standard: Danielson Framework Components

Description of Standard: Component 2b: Establishing a Culture for Learning. The classroom is characterized by high cognitive energy, by a sense that what is happening there is important, and by a shared belief that it is essential, and rewarding, to get it right. There are high expectations for all students; the classroom is a place where the teacher and students value learning and hard work.

Central Focus / Essential Question

What causes shifts in what consumers are willing and able to pay for a good or service?

Lesson Objective

By the end of this lesson, students will be able to analyze why the demand for certain products shifts by applying demand shifter concepts and defending their analysis.

Formative Assessment:

Do-now preview questions, note-taking on video, personal whiteboard activity, post-its activity with gallery walk. Teacher looks for widespread misunderstandings to correct during whiteboard activity, makes corrections during post-its activity.

Summative Assessment:

Students take a short quiz. This is the only graded aspect of today's lesson. 9 points are graded objectively. Students are either wrong or right. 3 points are graded subjectively. Students are asked to explain in a short, written response what happens to the demand curve for flowers right before Valentine's Day and why. Multiple shifters and both directions are possible as long as students explain their reasoning. 1 point if students include a shifter and a direction shift, and one point each for an explanation of why they think that shifter and direction shift apply that shows an accurate understanding of both concepts.

Academic Language Demands	Academic Language Support
Vocabulary and/or Symbols	Teacher will make a physical gesture to
Demand shifters	support complement and substitute
Normal good	understanding.
Inferior good	During Learn About It, teacher will define
Substitute	inferior vs. normal and leave the definition on
Complement	the board.
	Students will receive a graphic organizer of
	definitions for the demand shifters.
	Students will engage in two activities in which
	they use the shifter vocab.
Language Function (select one)	Students will have many opportunities to hear
Students will need to be able to <i>explain</i> why a	example explanations and to practice their
particular demand shifter fits an example.	own explanations before
	Students will receive a graphic organizer of
	definitions for the demand shifters and take
	notes on examples.
Syntax and/or Discourse	Students will have many opportunities to hear
Students will need to explain using language	example explanations and to practice their
like, "This is an example of x, <i>because…</i> "	own explanations before the summative
	assessment.
	The teacher will constantly prompt students
	to explain by asking "why."

Instructional Materials: Demand shifter "cheat sheet" (1 Whiteboards (15) Whiteboard markers (15) Whiteboard erasers (7) Post-its (60, 4/student) Poster board paper	5)		
Technology Integration			
 What technology will be used? Electronic whiteboard Student phones or devices to access Schoology. 	Who is using it? Teacher Students 	 Why is it appropriate? Students need to see a model of how to graph. Slides also allow for more visual aids such as images. Putting assessments on Schoology allows students to complete them on their own time. They are allowed two tries to repair misunderstandings and add a formative aspect to the summative. Schoology also keeps all resubmissions in one place. 	
Management Considerations			
I ransitions Some transitions are signaled by a bell, others verbally. The final assessment is signaled by the teacher writing the name of the assessment in red ink on the board in the same place that it is always written. A new slide also signals transitions. Partners will be projected on the board. While teacher reads out partners, students stand up and move to work together. Students have only been together 1.5 weeks at this point and are still getting to know each other			
Materials			
Students will pick up whiteboard Sheet on their way into class. Students will not receive a white pass out markers. Teacher will p Students will pass around post-i	ls, shifter cheat sheet, and Less board marker until the activity t bass out erasers to conserve re t notes, taking four each.	son Notes and Information to prevent misuse, student will sources.	
 Behavior Management (individu Students will be reminded th lesson until the end of class. issued for students who have to charge their phone on the 	als as well as groups of studen at they will not need to access A private, neutral verbal remin e their phone out. If this does n wall.	ts) personal devices for this der or a redirection will be ot work, students will be asked	
• Students are chronically late to class. The school policy is that they need a pass from the office to enter class after the bell rings, which also alerts parents and guardians, but tardiness is not to impact grades. The do-now ensures that instructional time is not wasted for students who are on time but does not populize students who are tardy. This paried of			
time also allows for a mome	nt of personal connection betwe	een the teacher and students.	

Instructional	Approx.	Procedure
Sequence	Time	
Planned	10	Do-Now:
Beginning:		• Students copy down lesson objective from board and answer the
How will you		review and preview questions independently.

engage students (including activation of prior knowledge)?		 Teacher floats around with attendance sheet, commenting on donow work, welcoming each student, encouraging students to share answers that are particularly interesting. <i>Review question</i>: What is the definition of customer demand? <i>Preview questions</i>: If your goal is to save as much money as possible, when is the best time of the year to buy a bag of mini-snickers bars? Why? You've been working for \$13 when suddenly your boss gives you a \$2 raise. When are you more likely to buy a new pair of Nikes: before or after the raise? When are you more likely to buy knock-off sneakers at Target? Why? If you buy a package of chocolate chip cookies, are you more or less likely to also buy milk? Why?
Development	LAI: 20	Learn About It
Learning (Clearly explain instructional activities in sequence and how they are connected or scaffolded.)	Try It: 45	 reacher introduces topic by underlining key terms from objective, pulls out the key vocab that students are responsible for learning, and projects the essential question and the definition of demand as a review. Moves to slide with student work on it showing the hot day and cold day demand for snowcones. Uses the student example to talk about right/rise and left/less shifts and builds off of prior knowledge from the day before about when demand for snowballs is highest. Asks, what change? Expecting price or weather. If price, this is an opportunity to point out that the price points and the quantities don't change, just the curve itself. Teacher introduces SEPTIC acronym and demand shifter definition. Class watches ACDC video on milk and demand shifters. Teacher pauses the video to clarify and allow students to add examples to their cheat sheets. Teacher connects expectation, complement, and income to the do-now preview questions and elicits student explanations. Try It Whiteboard activity: Teacher projects examples on board. Students write on personal whiteboards which shifter is at work and whether the curve would move to the right or left. Students with correct answers are called on to explain their reasoning. If many students miss one, then the teacher may ask students to explain their reasoning to surface the
		 misunderstanding. Post-it activity: Students move into pairs projected on board. Each student should split up the shifters, write their name on the back of 4 sticky notes and write their own example on their own sticky. Before they "post" on butcher paper hung around the classroom, they will talk with their partner who should sign off on it.
Enrichment How will you challenge students who have demonstrated mastery?		Students who finish early should gallery walk around the room, starring the examples they think are the most accurate and most creative and placing a check on examples that need revision.

Remediation How do you assist students who need additional support?		 The teacher will keep note during the whiteboard activity who might need extra help. The teacher will then monitor these students' post-it examples and have student re-attempt with teacher or peer support. For the exit ticket, teacher encourages students who are unsure to look at the examples on the poster boards and see which sound most similar. Students may also use cheat sheets on the exit ticket/quiz.
Planned Ending or Closure:	15	Students navigate to Schoology to take a short, open-note quiz over demand, demand curves, and demand curve shifts.