Title	Adverse selection and market failure	
Instructional	> To illustrate how information asymmetries can lead to adverse selection	
Objectives		
Keywords and	<ul> <li>Asymmetric information</li> </ul>	
Concepts	<ul> <li>Adverse selection</li> </ul>	
Illustrated	Moral hazard	
	<ul> <li>Market failure</li> </ul>	
Needed Time	<ul> <li>One lesson, 40 minutes in total</li> </ul>	

Sessions		Details	Time Spent
Activity/	1.	T: Do you have any experience of being cheated when you	10 mins
Announcement		buy something? After buying the product, you realize that	
		the quality of the product is not as good as salesperson said.	
	2.	T: Now, we try to form a second-hand market for cars. Let	
		see what happens in the market and if there is any cheating.	
		You class will be divided into two sides. Students in one	
		side are used-car owners and those in the other side are car	
		buyers (dealers).	
	3.	T: Here are the instructions for used-car owners and car	
		buyers (dealers). (Teacher divides the class into two sides.	
		Distribute Appendix 1 to used-car sellers and Appendix 2 to	
		used-car buyers. After that, post both enlarged appendices	
		on board. It is because buyers and sellers should know the	
		instructions of the other side as well. Explain instructions.)	
	4.	Distribute a small blank paper to car sellers to write down	
		their selling prices. Besides, teacher should give used-car	
		sellers a draw to decide what type of car they have, whether	
		a good car or a lemon. Half of the cars are good and half of	
		them are lemons (Please refer to Appendix 3).	
	5.	T: I give you two minutes to think about your buying or	
		selling price. Each seller should write down your selling	10 mins
		price on a small paper I gave to you.	
	6.	(After two minutes) T: Now you have five minutes to trade.	
		Sellers can reveal your prices to buyers by putting up your	
		price. Buyers can approach sellers and decide whose car	
		you want to buy. It is ok if you buy more than one car or	
		you don't buy any.	

## **Teaching Plan**

<ul> <li>both Appendices to post on board.</li> <li>Print out enough Appendix 3 for used-car sellers to draw their car condition.</li> <li>Prepare some small blank papers for car sellers to write down their prices.</li> </ul>				
<ul> <li>you got from the seller you approached. Both sellers and buyers can calculate how much profit or loss you have made.</li> <li>20 mins</li> <li>8. Discussion:</li> <li>8.1. Who have successfully sold your cars? (Ask them to raise up their hands. Then choose some of them to answer the following questions.) Is your car a lemon or a good onc? How did you set your price? Did you tend to give wrong information to buyers?</li> <li>8.2. Who could not sell your cars? (Ask them to raise up their hands. Then choose some of them to answer the following question). Can you explain why you couldn't sell your car?</li> <li>8.3. How many buyers bought their cars? (Ask them to raise up their hands. Then choose some of them to answer the following questions.) Did you make a profit or a loss from this transaction? How did you make your decision when you were in the used-car market?</li> <li>8.4. How many buyers could not buy their cars? (Ask them to raise up their hands. Then choose some of them to answer the following questions.) Why couldn't you buy a car? (Teacher can introduce asymmetric information and its consequences, such as adverse selection, moral hazard and market failure. Try to use this experiment to explain the meaning of these terms.)</li> <li>8.5. How can we solve the problem of asymmetric information in real world?</li> <li>Tools</li> <li>&gt; Prepare enough Appendix 1 and 2 to students and enlarge both Appendices to post on board.</li> <li>&gt; Prepare some small blank papers for car sellers to draw their car condition.</li> </ul>		7.	(After five minutes) T: Now, buyers can see what type of	
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Prepare some small blank papers for car sellers to write down their prices.		$\succ$	Print out enough Appendix 3 for used-car sellers to draw	
down their prices.			their car condition.	
		$\succ$	Prepare some small blank papers for car sellers to write	
Definitions > Asymmetric information – occurs when traders on one side			down their prices.	
	Definitions	$\succ$	Asymmetric information – occurs when traders on one side	

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	of the market know things that traders on the other side of			
		the market do not. (Bergstrom and Miller, 2000)		
	$\triangleright$	Adverse selection – is a condition which occurs in a		
		market when buyer or sellers would, on average, be better		
		off trading with someone selected at random from the		
		population than with those who volunteer to trade.		
		(Bergstrom and Miller, 2000)		
	$\triangleright$	Moral hazard – is a condition which occurs when the		
		actions taken by your trading partners are less favorable		
		for you than the actions of the average member of the		
		population. (Bergstrom and Miller, 2000)		
	$\triangleright$	Market failure – is a condition which occurs when market		
		cannot achieve an efficient allocation of resources. (Parkin,		
		1996)		
References	$\blacktriangleright$	Source of the experiment:		
		> Yandell, Dirk, 1999, Experiment #9, Using Economic		
		Experiments in the Classroom, Upper Saddle River,		
		New Jersey: Prentice Hall.		
	Definition of key words:			
		Bergstrom, Theodore C., Miller, John H., 2000.		
		Experiments with Economic Principles:		
		Microeconomics. The McGraw-Hill Companies, Inc.		
		➢ Parkin, M., 1996. Economics 3 <sup>rd</sup> rd. USA:		
		Addison-Wesley Publishing Company, Inc.		

Appendices	Materials for Teacher
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- Appendix 1 Instructions for used-car owners
- Appendix 2 Instructions for used-car buyers/dealers
- Appendix 3 Car's Condition