Teaching Plan			
Title	Mor	nopoly – Price Searching (HKALE)	
Instructional		To discover the profit maximizing price level is where $MR = MC$.	
Objectives	\triangleright	To explain why MR = MC for a firm in profit maximizing	
		equilibrium.	
	\triangleright	To describe the difference between price taking by a perfectly	
		competitive firm and price searching by a monopoly.	
Keywords and	\checkmark	Monopoly	
Concepts	\triangleright	Price searcher	
Illustrated	\triangleright	Marginal Cost	
	\triangleright	Marginal Revenue	
Pre-Game	\triangleright	Since each student has his/her own cost table (and thus his/her own	
Preparation		solution) in this game, teacher has to print out all the 28 sets of	
		student worksheets as well as the answers. Should the number	
		exceeds 28, teacher can photocopy several sets to make up the	
		number.	
Needed Time	\triangleright	A double lesson period, 80 minutes in total	

Sessions		Details	Time Spent
Activity/	1	T: Suppose you have just set up your own business to	15 minutes
Announcement		sell some goods or services, how will you set your	
		product/service price?	
	2	(Teacher may like to review with students the concept	
		of price searching/taking in different market structures	
		if such concept has been taught).	
	3	T: We are going to examine how a monopoly sets its	
		selling price today. Each of you will be a monopolist,	
		facing your own cost table. Since you are new to this	
		industry, you do not have any demand information.	
		So you are trying to determine the quantity to supply	
		and the price to charge in attempt to earn the highest	
		possible level of profits.	
	4	Teacher distributes to each student a Student Worksheet	
		(refer to the Excel file provided).	
	5	T: Let's have a look at your worksheet. You see there	
		is a code on your sheet. Since every one of you have	
		your own set of cost data, so this code will be your ID	
		in this game.	

6	T: As I said before, you know only your production	
	costs in this game. They are listed on the left table,	
	"Cost Table". Spend a few minutes to compute the	
	missing data first. They will be very useful for you in	
	this game.	
7	Allow 5 minutes for students to compute the data.	5 minutes
	You may need to remind students how to calculate AC	
	and MC.	
8	(After 5 minutes) T: You will decide and write down	15 minutes
	the price and quantity you offer for sale on the "Price"	
	& "Quantity Offered" column of bottom table and bring	
	the worksheet to me. I, as the market researcher, will	
	tell you the numbers of units demanded at that price.	
	You should record the information on "Quantity	
	Demanded" and calculate the "Total Revenue".	
9	T: In order to compute the "Profit" of that level of	
	quantity demanded, you need to refer to the "Total	
	Cost" that you need to incur to produce that level.	
	This information is very important for you to determine	
	demand conditions. You can then record the demand	
	conditions on the "Demand Estimation & Revenue"	
	table.	
10	T: You will have 10 periods for you to search for the	
	profit maximizing level of price and quantity sold. At	
	the end of the 10 periods, the one who earns the highest	
	profit wins.	
11	T: Since you are not provided with information about	
	customer demand and you have to search for this	
	information, the first 5 periods will be the trial periods	
	and the profit/loss you make in these 5 periods do not	
	count in the calculation of profit you have earned at the	
	end of the 10 th round.	
12	T: Please do not share information about your	
	individual market conditions, your particular price and	
	quantity decisions, or your profits. Each of you have	
	different markets, so sharing information is potentially	
	dangerous.	
13	There is no fix time for each period. You can just wait	

		in the front for students to come to get their "Quantity	
		Demanded" data. Go on with the game until everyone	
		has finished their 10 periods.	
	14	Discussion:	
		14.1 Can you observe anything special on the MC and	
		MR when your profit reaches the maximum?	
		Can you explain why this is so? ($MC = MR$ when	
		the profit reaches its maximum. MC is the extra	
		cost of producing one more unit. MR is the	
		extra revenue received from selling one more unit.	
		If MC of the last unit produced is less (more) than	
		the MR, one more unit produced and sold would	
		add more revenue than cost (cost than revenue),	
		so profit will increase (decrease)).	
		14.2 Explain your reasoning when using the trial	
		rounds to search for the demand schedule.	
		Would you have done anything differently when	
		looking back?	
	15	Reward the one who earns the highest profit from	
		period 6 to 10.	
Definitions		Monopoly – a situation in which a single seller of a	
		good faces no competition form close substitutes	
	k	(Lam, 1998: 171).	
		Price searcher – a seller who has sufficient market	
		power to set the selling price higher (and sell less), or	
		lower (and sell more) (Lam, 1998: 169).	
		Marginal Cost – the increase in total cost which results	
		from raising the rate of production by one unit (Lam,	
	~	1998: 138).	
		Marginal Revenue – the change in total revenue	
		resulting from an extra unit of a good sold (Lam, 1998:	
Toola		Drint anough Student Worksheet to each student	
10015		Prize for the winner	
Tanahar'a Dalar		The Market Desearcher	
reacher's Koles		Englistetor	
Deferre	۲ د	racinitator	
	Source:		

▶ Yandell, D. 2002. Using Experiments, Cases, And
Activities in the Classroom 2 nd ed. (New Jersey:
Prentice Hall).
Definitions:
Lam, P. L. 1998. Advanced Level Macroeconomics 3 rd
ed. (Hong Kong: Macmillan Publishers).

Appendix Materials for Teacher

An Excel file contains different sets of student worksheets and the answers.