H2 Economics: Content Clinic 2

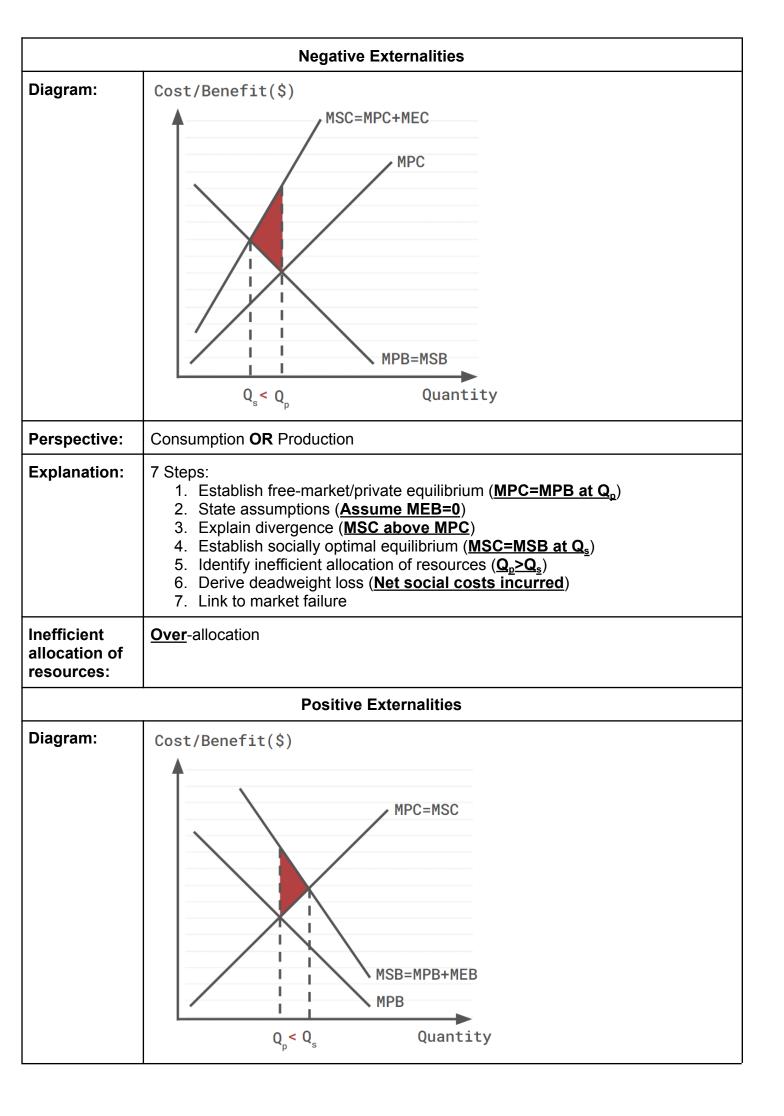
Key Definitions:

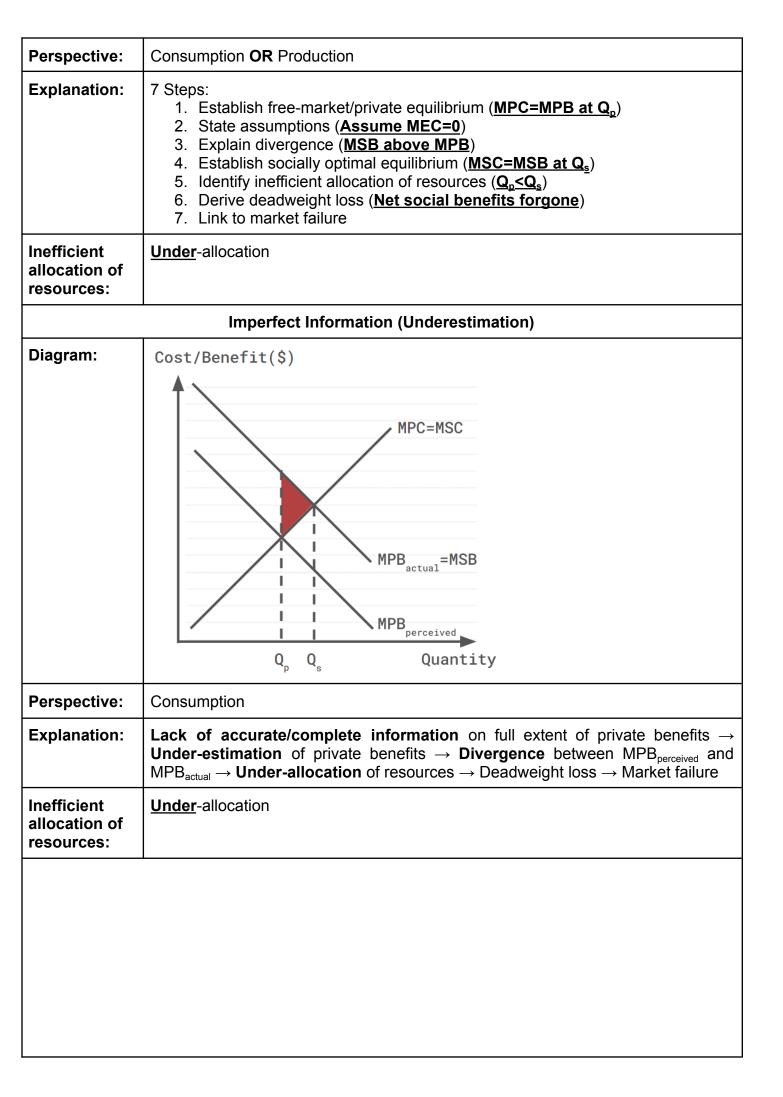
- 1. Market failure occurs when the free market is <u>unable to allocate resources efficiently</u>.
- 2. **Productive efficiency** occurs when the <u>maximum possible amount of output</u> is being produced from a <u>given amount of resources</u>.
- 3. Allocative efficiency occurs when the production of <u>one combination of goods</u> and services <u>maximises society's utility</u>.
- 4. **Public goods** are goods that exhibit the 3 characteristics of <u>non-rivalry</u>, <u>non-excludability</u> and <u>non-rejectability</u>.
- 5. **Non-rivalry** occurs when the consumption of a good by one or more consumers <u>does not</u> reduce the quantity available for others to consume.
- 6. **Non-excludability** occurs when it is <u>impossible to exclude non-payers from consuming</u> the good once it is produced.
- 7. **Non-rejectability** occurs when consumers are <u>unable to refuse consumption</u> of a good once it is produced.
- 8. **Negative externalities** are <u>negative spill-over or third-party effects</u> generated from the <u>consumption/production</u> of a good/service.
- 9. **Positive externalities** are positive spill-over or third-party effects generated from the consumption/production of a good/service.
- 10. **Third parties** are people who are <u>not directly involved</u> in the market transaction. (i.e. family members, friends, the government, employers)
- 11. **Imperfect information** occurs when there is <u>incomplete or inaccurate information available</u> to society.
- 12. Asymmetric information occurs when one party has more information than the other.
- 13. **Factor immobility** refers to the <u>inability</u> of factors of production to shift from one use to another due to <u>geographical</u> or <u>occupational</u> boundaries.

Key Concepts:

a) Sources of Market Failure:

Public Goods		
Diagram:	N/A (<u>Missing market</u>)	
Explanation:	 Free-rider problem Non-excludability: Non-payers able to enjoy the good → No one willing to pay → Wait for others to pay → No expression of demand Non-rivalry: Quantity available does not diminish when non-payers free-ride → Free-ridership continues to perpetuity Efficient price to charge is 0 (Non-rivalry) Non-rivalry: Quantity available does not diminish when non-payers free-ride → Free-ridership continues to perpetuity Efficient price to charge is 0 (Non-rivalry) Non-rivalry: Quantity available does not diminish when non-payers free-ride → MC of one additional user of the good is 0, once it has been produced → Allocatively efficient price to charge is 0 → Good should be made available to anyone that derives positive marginal benefit → No profit-driven firms willing to supply the good → No supply 	
Inefficient allocation of resources:	No allocation	

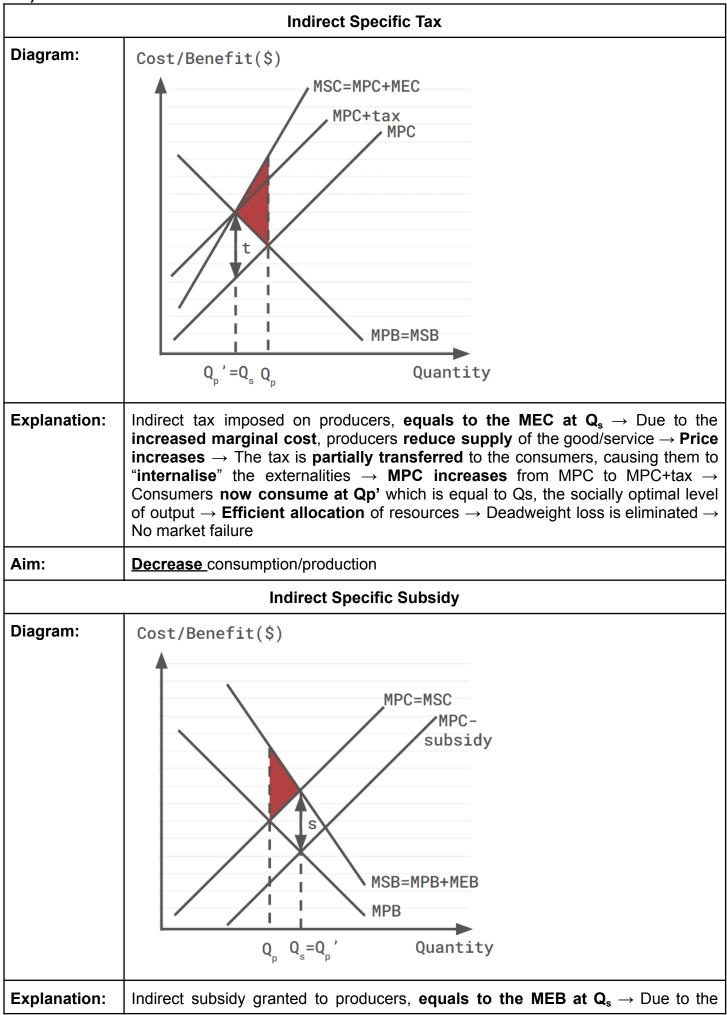




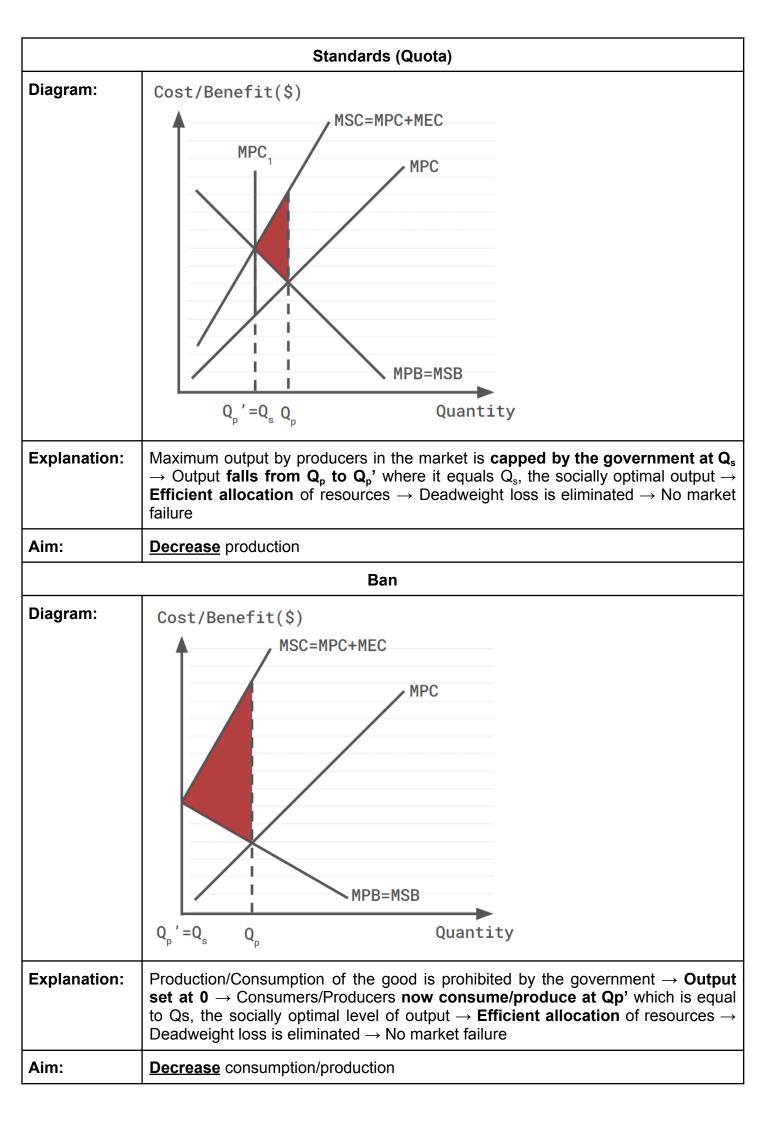
	Imperfect Information (Overestimation)
Diagram:	Cost/Benefit(\$) MPC=MSC MPB _{perceived} Q _s Q _p Quantity
Perspective:	Consumption
Explanation:	Lack of accurate/complete information on full extent of private benefits \rightarrow Over-estimation of private benefits \rightarrow Divergence between MPB _{perceived} and MPB _{actual} \rightarrow Over-allocation of resources \rightarrow Deadweight loss \rightarrow Market failure
Inefficient allocation of resources:	<u>Over</u> -allocation
	Asymmetric Information (Adverse Selection)
Diagram:	N/A
Perspective:	Consumer information < Producer information
Explanation:	Consumers have less information on quality of the good/service \rightarrow Consumers are unable to differentiate between high-quality and low-quality goods \rightarrow Consumers lower the price they are willing to pay due to possibility of receiving a lower-quality good/service \rightarrow Producers of higher-quality goods/services unwilling to enter the market
Inefficient allocation of resources:	No allocation for higher-quality product
	Asymmetric Information (Moral Hazard)
Diagram:	N/A
Perspective:	Consumer information > Producer information
Explanation:	Consumers have more information on their future behaviour \rightarrow Consumers engage in higher-risk activities due to the costs fully borne by another party \rightarrow Higher likelihood of insurance payout \rightarrow Unprofitable for insurer \rightarrow Exit market in extreme cases

Inefficient allocation of resources:	No allocation		
	Factor Immobility		
Diagram:	Quantity of Good A		
Perspective:	Producer		
Explanation:	Occupational Immobility: Barriers to mobility of factors of production between industries and uses \rightarrow Workers not having the right skills to allow them to transfer between jobs Geographical Immobility: Lack of willingness/ability of factors of production to move between and within countries Structure of the economy changes \rightarrow Changes to skills and knowledge to perform jobs \rightarrow Factor immobility leads to structural unemployment of factors of production \rightarrow Opportunity cost of output forgone		
Inefficient allocation of resources:	Under-allocation (Unemployment)		

b) Government Intervention



	decreased marginal cost, producers increase supply of the good/service \rightarrow Price decreases \rightarrow MPC decreases from MPC to MPC-subsidy \rightarrow Consumers now consume at Qp' which is equal to Qs, the socially optimal level of output \rightarrow Efficient allocation of resources \rightarrow Deadweight loss is eliminated \rightarrow No market failure	
Aim:	Increase consumption/production	
	Closing the Information Gap (Public Education/Legislation)	
Diagram:	N/A	
Explanation:	 Public Education: Government provides accurate and complete information to consumers/producers → Increase/decrease MPB_{perceived} to MPB_{actual} → Consumers/producers now consume/produce at Qp', equals to Qs → Efficient allocation of resources → Deadweight loss eliminated → No market failure Legislation: Government mandates the disclosure of information by producers → Same as Public Education 	
Aim:	Increase/decrease consumption/production	
Direct Provision (Free Direct Provision)		
Diagram:	Cost/Benefit(\$) MPC=MSC MSB=MPB+MEB MPB MPC=0 $Q_p Q_s=Q_p' Quantity$	
Explanation:	Good is provided free to the consumers by the government \rightarrow MPC equals to $0 \rightarrow$ Consumers now consume at Qp' which is equal to Qs, the socially optimal level of output \rightarrow Efficient allocation of resources \rightarrow Deadweight loss is eliminated \rightarrow No market failure	
Aim:	Increase consumption	



Cap-and-Trade (Tradable Permit)			
Diagram:	N/A		
Explanation:	 Maximum output by producers in the market is capped by the government at Q_s → Output falls from Q_p to Q_p' where it equals Q_s, the socially optimal output → Efficient allocation of resources → Deadweight loss is eliminated → No market failure Number of total permits is decided by the government to achieve Q_s. Producers are able to trade with other firms for permits/quotas should they require more → Allows for free market forces to take place → Price of permits/quotas determined by forces of demand and supply 		
Aim:	Decrease production		
	Compulsory Consumption		
Diagram:	N/A		
Explanation:	Government mandates the consumption of a good/service		
Aim:	Increase consumption		