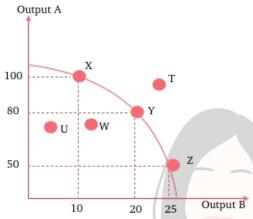
Production possibility frontiers

Production Possibility Frontiers(PPF): a curve that shows the maximum combination of two goods that can be produced by existing resources and technology.

1. PPF and point (Efficient resources allocation)



On PPF : Point X, Y, Z : shows maximum output and full capacity (fully employed). ⇒ *Efficiency*

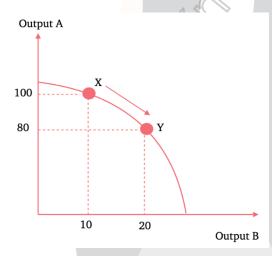
Below PPF: Point W, U: shows inefficient use of resources and below full capacity (Unemployment)

⇒ Inefficiency

Above PPF: Point T: Unobtainable or above capacity

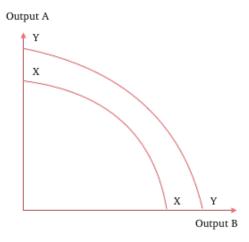
2. PPF and economic problem

· Economic problem is about limited resources and and limitless want



- **Economic problem**s arise from limited resources and limitless want.
- When a country increases the production of output B from 10 units to 20 units, it has fewer resources available to produce output A. The production of output A falls from 100 units to 80 units from Point X to point Y.
- The opportunity cost of an extra 10 units of output B is the loss of 20(100-80) units of output A.

3. PPF and Economic growth



- **Economic growth:** an increase in productive potential of an economy over the period of time or an increase national income & output
- The PPF shifts outward(XX to YY); meaning that there will be higher maximum outputs or economic growth.

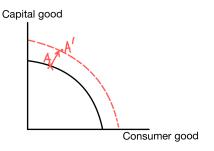
Factors causing a shift outward of PPF

Increase Quantity Factor of production	Increase Quality Factor of production	Technological Advance
e.g. labour immigration,	e.g. training and	Eg. Technological
investment in capital, lower	education	advance
school leaving age, higher	⇒ more skills and higher	⇒ higher productivity
retirement age.	productivity ⇒ potential to produce	⇒ potential to produce more output
	more output	

Factors cause inward shift of PPF

- 1. A fall in quantity of resources
- 2. A fall in quality of resources
- 3. Flood, natural disaster and Covid 19

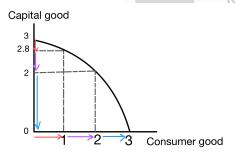
- 4. PPF and resources allocation between consumer goods and capital goods
 - Capital goods: used to produce the other goods.
 - Consumer goods: for final consumption.
 - If country allocates a large proportion of resources to produce capital goods



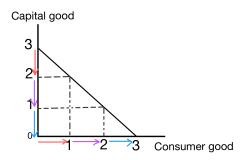
 It can increase maximum output in the future (shift outward of PPF) but it may reduce current living standards from a fall in consumer goods.

5. PPF and opportunity cost

- Opportunity cost arises because the country has limited resources, then allocating resources to produce a product. It will have lesser resources available to produce another product
- 1) PPF: Concave curve it shows increasing opportunity cost. As factors of production are not perfectly substituted to produce both products.



2) PPF: Straight line: it shows constant opportunity cost. As factors of production are perfectly substituted to produce both products.



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