Pattern of trade	- Australia is a medium, open economy
	- 13 th largest economy in the world
	- trade accounts for approx. 45% of GDP
Trade intensity	- measures the degree in which a nation is involved in trade
ratio	- Australia's trade intensity ratio is relatively low compared to
	other countries
	x + m
	GDP
Composition of	- Australia is a primary exporter and a secondary importer
trade	
Exports	- Primary commodities dominate Australia's exports
	 Primary commodities include mining commodities and rural
	commodities
	- Due to abundance in natural resources
	- Mining commodities dominate Australia's exports (approx.
	50% of exports)
	 Traditionally, rural commodities dominated Australia's
	exports
	 Since the 1960s/70s mining emerged as Australia's major
	export industry
	1970's
	rural – 40% of exports
	mining – 25% of exports
	2018
	rural-12% of exports
	mining- over 50% of exports
Australia's	- Changes in Australia's major exports are associated with a
chanaina exports	enanges in Australia si major exports are associated with a
endinging experte	rapid increase in mineral and energy exports, and the decline
	rapid increase in mineral and energy exports, and the decline in rural exports
	 rapid increase in mineral and energy exports, and the decline in rural exports Focus on Australia's trade has shifted away from Europe to
	 rapid increase in mineral and energy exports, and the decline in rural exports Focus on Australia's trade has shifted away from Europe to western pacific and east Asian regions
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14/6-26-6-2-2-6-	 rapid increase in mineral and energy exports, and the decline in rural exports Focus on Australia's trade has shifted away from Europe to western pacific and east Asian regions Australia has been a leading producer of wool and wheat Significant producer of iron ore, coal, natural gas, gold, mineral sands and uranium past few decades, increase in the relative importance of mineral and energy exports decrease in importance of rural exports rural exports have decreased rapidly (40-13% since 1970s) mining resources has become more dominant (30- 50% since 1990s of total exports)
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	e.g. China, South Korea, India
Major changes in	- Dramatic decline in rural exports
composition of	- Significant increase in resource exports
Australia's exports	- Relative decline in manufacturing exports
	- Increase in importance of services exports
Composition of	Predominantly, Australia is a primary exporter
exports	CHANGES
onporto	- Shift away from rural to mining commodities
	- Ranid growth in newly industrialized economies
	- increased competition for rural commodities
	- decrease manufacturing exports
	(labour more expensive in Auc)
	(about more expensive in Aus)
	(cheap labour overseas in highly populated countries)
	(manufacturing in Australia not competitive or efficient)
	- Increase is service exports from 15% to 23% in 2018
	(education and tourism)
	(Over time trade in services should increase as incomes in
	east Asia rise)
	- Increase in the exporting of Elivis- elaborately transformed
	manufactured goods – rather than STIVIS)
	- Two thirds of Australia's manufactured exports are now
	elaborately transformed
	- ETM'S consist of more highly processed manufactures E.G.
	machinery and transport equipment
	- STMs consist of relatively unprocessed goods E.G. steel,
	aluminium
Composition of	 Australia imports a significant amount of secondary goods
<mark>imports</mark>	including PMV, TCF (textiles, clothing, footwear), petroleum
	and tourism
	 Tourism has emerged as Australia's number one import
Direction of trade	ASEAN – Indo, Malaysia, Thailand, Philippines, Vietnam, Laos,
	Myanmar
	ASIA-PACIFIC rim- geographical proximity
	APEC- Asian pacific economic corporation
	- Australia's major trading partners are China, Japan and USA
	- 80% of Australia's trade is within the Asia pacific rim
	- traditionally, Australia's significant trading partner was the
	UK, largely due to historical ties.
	- However, over the past 50/60 years, there has been a
	significant shift away from Europe towards the Asia pacific
	region
	(N/E asia, S/E asia, North America, oceania)

Reasons for the	Geographical proximity with the Asia-pacific region
shift	- Results in lower transport costs, forming positive economic +
	political ties with Australia's closest neighbours
	- Significant distance of European nations made trade
	expensive and timely
	Complimentary economies
	- Australia's economy and the economies of east and south
	Asia are complimentary (efficient production of goods and
	services in aus are opposite to neighbouring economies)
	- Neighbouring Asian nations have large growing nonulations
	Allows access to diverse goods and services
	- Via imports
	Produced from Asia
	- Floudceu fiolifi Asia
	High demand for Australia's commodition
	- High demand for Australia's commodities
	Establishment of EU
	- Prevented Australia's access to European markets, forcing
	Australia to seek other trading partners
Shift in past 10	- China, in the past 10 years, emerged as Australia's most
years	important trading partner
	- Over 1 quarter of Australia's exports are sold to china
	- The prominence of china in terms of rapid economic growth
	as china industrialised into a more developed nation
	 Economic development of china increased demand for
	Australia's commodities, particularly iron ore and coal
	 Japan, while still an important trading partner, fell in
	proportion of Australian exports sold
	 Other NIE's also increased their demand for Australian
	commodities to service their rapid economic development,
	including India and South Korea
	- Growth in service exports (particularly in china) in the past
	few years opened up export markets in Columbia, sri lanka,
	Pakistan and Saudi Arabia
	-
Factors affecting	- Exchange rates
CAD	- Relative inflation
	- Interest rate differential
	- World economic growth
	- Domestic economic growth
	- Terms of trade
	- World commodity prices
	- Domestic savings
	- External shocks
Exchange rates	(low)
	- Decrease in AUD
	- Increase in demand for exports
	- Increase in international competitiveness
1	

	-	Increase in BOGS, CAD improves
Relative inflation	(low)	
	-	Increase services exports and goods exports due to our
		prices being lower due to a low inflation rate
	-	Increase in international competitiveness
Interest rate	(high)	•
differential	-	Increase in foreign investment due to higher rate of return
	_	Increase in primary income debit
	_	Decrease in income
	_	
		Decrease in import spending due to higher cost of credits
	_	Bogs increases CAD improves
Marld acanomic	- (high)	bogs increases, CAD improves
	(iligii)	Mould increase experts due to higher levels of income
growth	-	internetic a class exports due to higher levels of income
		internationally, also growth puts pressure on world price to
		increase meaning we will import less
	-	Bogs increases
	-	CAD improves
Domestic	(high)	
economic growth	-	Increase import spending due to higher levels of disposable
		income
	-	High growth puts pressure on prices to rise due to high
		demand-pull inflation
	-	Increase in import spending decreases BOGS
	-	CAD will worsen
	-	Firms will spend more on capital equipment
	-	Increase in investment
Terms of trade	(favou	rable)
	-	A favourable TOT will improve Australias CAD
	-	A rise in export prices will increase export revenue which will
		increase goods credit transactions in the current account
	-	A relative fall in import prices will reduce import payments
		which will decrease goods debit transactions in the current
		account
	-	As goods credit transactions rise relative to goods debit
		transactions, net goods rises causing an increase in BOGSS
		which will improve the CAD – assuming no change in
		quantity
	_	Demand for Australia's commodity are relatively stable as
		they are price inelastic, therefore huyers are less responsive
		to a price change
	_	Loss of international competition sell less/Law of demand
World commodity	(rising)	Loss of international competition, sen less/Law of definding
prico	(insing)	Commoditios are price inelastic
plice	_	Would decrease imports due to cost push inflation
	-	Courses everyons to import loss to a
	-	Causes overseas to import less, too
	-	Demand is constant

	- Increase in goods cr
	- Increase in export revenue
	- Commodities are price inelastic, perfect comp, homogenous,
	CAD improves, Increase in BOGS
Domestic savings	(low)
	- Increase in investment savings gap
	- Increase in foreign investment
	- Increase in primary y dr
	- decrease in net income
	- Cad worsens
External shocks	(drought)
	- Decrease in exports
	- Decrease in bogs
	- CAD worsens
Cyclical	- Responds to changes in economic cycles
	 More temporary and subject to change
	- Help explain the fluctuations in the goods and services
	balance
	- Temporary factors which mainly affect the trade balance
	- Domestic business cycle – exchange rate – terms of trade]
Structural	- Not affected by change in economic cycles
Australia's trend in	Cyclical
CAD	- Affected by cycles (BOGS)
	- An upturn in economic activity, CAD typically worsens as
	spending on imports is high (C+I) and there is high inflation
	- Australia's trade balance is largely affected by domestic
	growth, world growth, exchange rates and WCP
	- Demand for Australia's commodities are very price inelastic
	therefore is subject to large price fluctuations causing net
	goods to vary frequently between a surplus and a deficit.
	 net services are persistently in deficit (since 2004-5)
	 despite growth in Australia's export services, Australia's
	dependence on foreign freight and shipping, high transport
	costs due to geographical proximity and increasingly high
	overseas tourism.
	Structural
	 unaffected by changes in net y economic cycles
	- Australia's net income balance in persistently in deficit
	- The CAD reflects the high levels of foreign investment in
	Australia which results in a FAS
	- The cost of FI is the income Australia pays foreign investors
	which leads to the primary income deficit
	- Australia's reliance on FI is a result of the investment/savings
	gap.
Australia's CAD	2008- 2012
	Improving CAD
	(Trade surplus)

	- Mining boom
	 Chinas rapid growth
	 Increase in World commodity prices
	2012- 2016
	Improved CAD
	(trade surplus)
	- End of mining boom (2013)
	Docrosso in WCP
	- Decrease III wor
	- High dollar in 2012 – decrease in international competition
	2016-18
	Improved CAD
	(trade surplus)
	 Largely due to an increase in WCP
	- Increase in demand from china
	Weaker domestic growth
	- Reduced import spending D for FI
	- Raise in USA interest rates
	- Decrease in Aus interest rate differential which reduced net
	incomo deficit
	Income deficit
Less Hard to a set of	nowever, late 2018, het y delicit worsened while BOGS improved
implications of	
CAD	(trade deficit)
	- Exports less than imports
	 Increase in exchange rates
	- High domestic growth
	 Decrease in world growth
	Net income
	 Savings less than investment
	 Domestic savings is insufficient to meet demand for
	investment funds
	(Savings relatively low – in relation to high investment)
	- CAD + high foreign investment
	Investment is a major source of economic growth (domand
	- investment is a major source of economic growth (demand
- (-)	and supply source of growth)
ierms of Irade	- A measure of the amount of imports which can be obtained
	trom a given amount of exports
	 The TOT index is calculated to measure the value of exports
	against imports
	 Terms of trade index measures the movement of export
	prices relative to import prices
Favourable TOT	Export prices have RISEN relative to import prices
	- X rising, M falling
	- X rise faster than m prices
	- X falling but not as low as m prices
	- Y stays the same im prices fall
	- A stays the same, in prices fall
	- A rise, mistays the same
Unfavourable IUI	Export prices have FALLEN relative to import prices

	 X falling, m rising
	 X decrease faster than m
	 X rise at a slower pace than m
	 X fall, m stays the same
	 X stays the same, m increases
тот	$TOT = \frac{XPI}{MPI} \times 100$
ХРІ	 Index which measures the movement of export prices
	$XPI = \frac{\$ VALUE X (GIVEN)}{\$ VALUE X (BASE)(M1)} \times 100$
	\$VALUE X (BASE)(VI)
	- Index which measures the movement of import prices
	$MPI = \frac{\$ VALUE \ M \ (GIVEN)}{\$ VALUE \ M \ (BASE)(y1)} \times 100$
Trend in Australia's TOT	 Changes in world commodity prices significantly impact Australia's TOT, as Australia's exports are predominantly commodities.
	e.g. rising WCP will cause a favourable movement in TOT.
	 changes to Australia's TOT in recent years is a result of fluctuating export prices, rather than import prices, which has remained relatively stable
	2003-2008 = Fav TOT = MINING BOOM
	2008 = unfav IOI = GFC
	2009-2012 = Fav TOT = mining boom continued
	2013-2016 = Unfav = end of mining boom, decrease domestic
	commodifies, decrease world commodity prices
	2017 = Fav tot = spike in WCP
	2018= Onrav tot = decrease in demand for commodities in world
	market
	to change
Relationship	Relationship between CAD and TOT
between CAD and	- TOT is a factor affecting CAD (cause)
тот	- CAD is an effect of TOT
	 Changes in Australia's terms of trade will impact the current account deficit
Effects of rising	Favourable TOT – export prices have risen relative to import prices
TOT	- BOGS would increase CAD will improve
	- Exchange rates would go up as our exports are worth more
	in relation to imports and we export currency to overseas
	consumers

	- Producers receive higher profits (export revenue)
	- Domestic businesses, with higher profits, are able to invest
	more
	- Domestic producers of import replacement goods are less
	competitive
	An increase in the TOT due to higher commodity prices will
	- An increase in the FOT due to higher commonly prices will
	lead to an expansion in economic activity
	- When commodity prices fall, TOT will decline, resulting in a
	shock to the economy
	 Economic activity will contract, reduces growth rate of real
	GDP.
Effect of TOT on	Economic Policy Objectives (EPOs)
<mark>EPO's</mark>	- Full employment
	- Sustainable growth
	- Price stability
	Effect of a rising TOT on achieving the 3 economic policy objectives
Rising TOT	- Means more imports can be obtained/purchased with a
	given amount of exports
	- Purchasing nower of exports has increased (increase in real
	incomol
	Demand null inflation
	- (increase in aggregate demand)
	- Increasing AD is the same as increasing AE
	- A rising IOI increases exports as export revenue rises
	relative to import payments
	 Therefore, an increase in net exports will increase spending
	in the economy as it is a component of AE
	Growth
	 Increase in economic growth
	- Decrease in cyclical UE as increase in demand for labour as
	economy expands and production increases to OE1
	- Increase in demand pull inflation to PE1 due to increasing
	spending
	Cost push inflation
	- Rising tot will cause cost push inflation to fall due to falling
	costs of production
	- Due to falling price of imported capital equipment
Evenando ratos	The price of and countries currency in terms of another
Exchange rates	- The price of one countries currency in terms of another
	countries currency
	e.g.
	China = Renminbi
	Japan = Yen
	European = Euro
	UK = Great British pound

Appreciation	 An increase in the price of one country's currency in terms of another country's currency
Depreciation	- A decrease in the price of one country's currency in terms of
Tue de Maislate d	another country's currency
Trade Weighted	- An index which measures the movement of the Australian
Index (TVVI)	dollar against a basket of currencies
	- weighted according to their importance of trade with
	Australia The ferex merket brings together the buyers and collers of
FOREX market	- The forex market brings together the buyers and sellers of
(Toreign exchange	The price of a currency is determined by the market forces of
illarket)	- The price of a currency is determined by the market forces of demand and supply at equilibrium
	- Any change in the market conditions (shifts in demand and
	supply) will cause automatic adjustment of price and
	quantity where there is no tendency to change
DEMAND FOR AUD	- Buyers of the currency
	- Demand of the AUD is determined by the credit transactions
	of the BOP
	(demand is determined by the amount of money entering Australia
	from overseas)
SUPPLY FOR AUD	- Sellers of the currency
	- Supply for the AUD is determined by the debit transactions
	of the BOP
	(supply is determined by the amount of money leaving Australia to
	overseas)
Appreciation of	overseas)
Appreciation of AUD (INCREASE in	overseas) (Appreciation) (PAUD) - Prime AUD SI Prime AUD S AUD S
Appreciation of AUD (INCREASE in price of AUD)	overseas)
Appreciation of AUD (INCREASE in price of AUD)	overseas)
Appreciation of AUD (INCREASE in price of AUD)	overseas)
Appreciation of AUD (INCREASE in price of AUD)	overseas)
Appreciation of AUD (INCREASE in price of AUD)	$\frac{P_{pp(eciation)}(P A U D)}{P_{p1}^{ot} A U D} = \frac{P_{p1}^{ot} M^{P}}{A U D} \frac{A U D}{S}$ $\frac{P_{p1}^{ot} M^{P}}{P_{p1}^{ot} A U D} \frac{S}{S}$ $$
Appreciation of AUD (INCREASE in price of AUD)	overseas) $P_{ab}^{(r)} = P_{ab}^{(r)} = P_{ab}^{$
Appreciation of AUD (INCREASE in price of AUD)	$\frac{P_{pp(eciation)}(f \land uo)}{P_{p}(f \land uo)} = \frac{P_{p}(f \land uo)}{P_{p}(f \land $
Appreciation of AUD (INCREASE in price of AUD)	overseas) $P_{av}^{(r)} = P_{av}^{(r)} = P_{av}^{$
Appreciation of AUD (INCREASE in price of AUD)	overseas)
Appreciation of AUD (INCREASE in price of AUD)	overseas)
Appreciation of AUD (INCREASE in price of AUD) Depreciation in AUD (DECREASE in	overseas)
Appreciation of AUD (INCREASE in price of AUD) Depreciation in AUD (DECREASE in price of AUD)	overseas) $P_{PP}(eciation) (PAVD) = P_{P}^{AVD} = P_{P}$
Appreciation of AUD (INCREASE in price of AUD) Depreciation in AUD (DECREASE in price of AUD)	overseas) $P_{p}^{(1)}$ $P_{p}^{(2)}$ $P_{$
Appreciation of AUD (INCREASE in price of AUD) Depreciation in AUD (DECREASE in price of AUD)	overseas)
Appreciation of AUD (INCREASE in price of AUD) Depreciation in AUD (DECREASE in price of AUD)	overseas) $P_{a}^{(P)}$ AvD $S_{a}^{(P)}$ AvD $S_{a}^{(P)}$ $P_{a}^{(P)}$ AvD $S_{a}^{(P)}$ $P_{a}^{(P)}$ P_{a
Appreciation of AUD (INCREASE in price of AUD) Depreciation in AUD (DECREASE in price of AUD)	overseas) $P_{preciation} (P AUD)$ $P_{s} = \frac{P_{nu}}{P_{u}} = \frac{P_{u}}{P_{u}} = $
Appreciation of AUD (INCREASE in price of AUD) Depreciation in AUD (DECREASE in price of AUD)	overseas)
Appreciation of AUD (INCREASE in price of AUD) Depreciation in AUD (DECREASE in price of AUD)	overseas) $P_{p}^{(a)} = P_{p}^{(a)} = P_{$

Decrease in coal	
exports to china	(Depriciation) (+ p of AUD)
	by stronger (ter)
	et we
	ities X
	01 0
	beide
	- J IMPO(F)
	- & a capita outflow (AIA)
	- the diagram shows a decrease in demand for the ALID from
	D to D1
	- This is due to a decrease in coal exports to China, which
	reduces the credit transactions into Australia, therefore,
	there are less buyers of the AUD
	 The decrease in demand creates a surplus of AUD in the
	forex market, putting pressure on the exchange rate to
	depreciate from D to DI, and quantity to fall to QE1
RESPONSE	- What
SHOULD INCLUDE	- Why Sharts as (sumplus
	- Snortage/surplus
	- P change Change in quantity
Eactors affecting	- Change in quantity
Fychange rate	- Domestic savings
	- World growth
	- World commodity prices
	- Interest rate differential
	- Relative inflation
	- Terms of Trade (TOT)
Commodity prices	Exports
<mark>(high)</mark>	 Aus is commonly referred to as a commodity's currency
	- Affects export revenue
	- Increase in D due to increased export revenue (commodities
	are price inelastic)
	- appreciation
Interest rate	(m, l, y)
alfferential (low)	has a significant impact on foreign investment
	- RBA decreases interest rates (cash rate)
	- Decrease in FL due to decrease in rate of return on
	investment
	 Less interest earned on loans to Australia (for foreign
	investors)
	- Decrease in Demand for AUD, depreciation
	Income
	In the long term

	- Decrease in Fl
	- Decrease in primary income payments
	- Decrease in supply
	- Appreciation
	Import spending
	- Decrease in interest rates causes an expansionary effect as
	the cost of credit falls
	- Increase in cash flow of HH and firms as current credit
	navments decrease
	- Increase in disposable income
	Increase in import sponding
	- Increase in supply
Relative inflation	Exports
(decrease)	- more countries will import our goods as prices are cheaper
	- increase international competitiveness
	- increase in demand for AUD
	- appreciation
	Imports
	 increase in domestic imports replacement goods
	 prices cheaper domestically than overseas
	- appreciation
Domestic growth	Imports
(decrease)	 low growth = decrease in import spending due to less
	disposable income
	 decrease in m spending by firms on capital equipment
	- decrease in supply
	- appreciation
Terms of trade	Export revenue
(increase)	 export prices are rising relative to import prices
	- increase in revenue relative to import payments
	- increase in D
	- appreciation
	Import payments
	 import payments less than export revenue
	- decrease in supply
	- appreciation
Domestic savinas	Investment
(fallina)	 widens investment/savings gap
0	- increase in demand for Fl
	- increase in demand
	- appreciation
World growth	Fxnorts
(increase)	- affects demand for exports
increase	- an increase in growth of trading partners will
	- increase demand for ALIS commoditios
1	- Increase geniand for AUS commodifies
	increase demand for AUD

	- appreciation
KEY FACTORS	- Commodity prices
AFFECTING AUD	- Interest rate differential
Commodity prices	 Aus dollar referred to as 'commodity currency'
	 65% of aus exports are made up of primary commodities
	- changes in the price of these commodities have a significant
	effect on export revenue (Australia's national income)
	 exports of goods and services contributed to over 20% of
	GDP
	 STRONG CORRELATON BETWEEN Australian commodity
	prices and AUD
	 RBA complies an index of commodity prices weighted
	according to the importance of the commodity in Australia's
	trade
	 A general increase in commodity prices will result in an
	appreciation of AUD (ceteris parabus)
Interest rate	 Can be measured by the difference in official cash rates
differential with	between the two countries
USA	 IRD affects foreign investors and the flow of financial capital
	- International investors seek out the highest returns for their
	funds
	- If interest rates in the US rise relative to Australia, the AUD
	will depreciate
	 Less foreign investment flow = decrease in demand for AUD
_	 Aus investors shift funds overseas = increase in supply
Types of exchange	- Floating ER
rate systems	- Fixed ER
	- Managed EK
Floating ER	- The AUD was first floated in 1983
	- Prior to 1983, Australia had a peg crawl system where the
	exchange rate was fixed according to movements of another
	Currency
	- A hoating system allows the lorex market to determine the
	Any changes to market conditions will result in the
	- Any changes to market conditions will result in the
	ALID can freely float (annreciate/denreciate) to the new
	nrice
Fixed FR	- The government body (RRA) will intervene in the FORFY
	market to keen the price of the currency at a pre-
	determined fixed rate
	- The method of intervention in the FORFX market is buying
	and selling the currency
	For example: presume there is an increase in demand for AUD

	- The increase in demand for AUD will create a shortage of
	AUD in the market putting pressure on the AUD to
	appreciate
	Increase in supply – shortage
	- Government will intervene as a seller
	- Supply will increase from S to S1
	- RBA will enter the market as a seller to remove the shortage
	and maintain the exchange rate at the fixed rate
	Decrease in supply creating a surplus
	 Government will intervene as a buyer
	- Demonstrates a surplus in the market
	- Demand will increase from D to D1, demonstrating the
	government buying the surplus, in order to equilibrate the
	AUD.
Manaaed ER	- The exchange rate is largely determined by the FOREX
	market (floating)
	- However, the RBA will intervene in the market to prevent
	large fluctuation in the exchange rate
	(stop the AUD from appreciating/depreciating too significantly)
	- This is referred to as a dirty float
	- Australia's exchange rate system is known as (lightly
	Australia s exchange rate system is known as lightly
	managog
Mothods of	1 Direct intervention
Methods of	1. Direct intervention
Methods of intervention	1. Direct intervention 2. Indirect intervention Entering the market as a huwar or coller
Methods of intervention Direct intervention	1. Direct intervention 2. Indirect intervention - Entering the market as a buyer or seller If the AUD appreciates too high
Methods of intervention Direct intervention	1. Direct intervention 2. Indirect intervention - Entering the market as a buyer or seller If the AUD appreciates too high the RRA will call the AUD
Methods of intervention Direct intervention	
Methods of intervention Direct intervention	
Methods of intervention Direct intervention	
Methods of intervention Direct intervention	managed 1. Direct intervention 2. Indirect intervention - Entering the market as a buyer or seller If the AUD appreciates too high - the RBA will sell the AUD - increasing supply, putting pressure on AUD to depreciate If the AUD depreciates too low - RBA will buy the AUD
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Floating ER and	- Under a floating exchange rate, the BOP will always equal 0
the balance of	- A floating exchange rate determines the value of a currency
navments (BOP)	at equilibrium where demand and supply intersects
	(supply = DR)
	(debit = CB)
	At equilibrium price ER, the value of all credit transactions
	- At equilibrium price LK, the value of all debit transactions
	BOD will equal 0
	BOP will equal 0.
Fixed v floating	
systems	
Advantages of	Reduces the need for foreign currency reserves
Floating	Increases the effectiveness of monetary policy
	Prevents imported inflation exports
	Insulation for an economy after an external shock
	- e.g. drought
	 decrease agricultural commodity, decrease in export,
	decrease in demand, depreciation, increase in international
	competition, increase demand for exports
	reduce swings in CAD (partial automatic correction)
	 e.g. CAD worsens, debits rising relative to credits,
	depreciation, increase international comp, demand for
	export, decrease d for imports, increase in BOGS, CAD
	improves
	true evaluation of the economy
	more flexible as is allowed to react to economic conditions
Arguments for	increased stability
fixed	less uncertainty
	reduced cost of currency hedging for business. Regarding
	currency fluctuations.
Effects of a	- nositive and negative
depreciation	positive and negative
Positive effects of	increase international competition
depreciation	decrease imports
	■ increase exports
	■ increase BOGS
	increase domestic import replacement goods
	 increase employment in export industry and growth
	 goods cheaper as inflation is low
	■ jocus cheaper as inflation is low
	 Increase export revenue cheaper to invest within Australia
Nogativo offecto ef	
depresent:	 more expensive to travel/buy overseas currency increase each of increase of a second sec
aepreciation	 Increase cost of imports of consumers
	- cost push inflation
	may be some demand pull inflationary pressure as export
	industry increases

	increase in imports which cannot be replaced by domestic
	goods
	e.g. PMV, consumers forced to buy expensive imports
	primary income payments more expensive
Appreciation and	- occurs from a commodity export boom which results in an
<mark>Dutch disease</mark>	appreciation of the currency
	- during the mining boom, commodity prices peaked, causing
	the AUD to appreciate to its highest level
	- the appreciation reduced international competitiveness for
	Australian exports
	 however, despite the high dollar, china's demand for
	commodities remained strong, preventing the dollar from
	depreciating.
	- Non-mining sector (e.g. retail, manufacturing) in Australia
	suffered as the appreciation increased
	 The price of AUS non-mining exports reduced export
	revenue
	 This created a two-speed economy where the mining sector
	was expanding as the expense of the non-mining sector
	 This is known as the Dutch disease
Foreign	 the stock of financial assets in Australia owned by overseas
investment	residents
	 AKA foreign liabilities, capital inflow
Australian	 The stock of financial assets overseas owned by Australian
investment abroad	residents
4 types of	Portfolio
investment	- Less than 10% ownership of an asset
	Direct
	- 10% or more ownership of an asset
	Government borrowing and lending
	- government borrowing and lending money for economic
	Denetit
	<u>Reserve assets</u>
Delen ee en the	- buying and selling of foreign currency
Balance on the	- difference between the monetary value of foreign
	abroad
	AVA Not foreign lipbilities, not capital inflow, not international
	invostment position (NUP)
2 main forms of	
investment	2 debt securities
Fauity securities	- financial assets which result in the investor gaining a degree
	of ownership
	e.g. portfolio, direct
Debt securities	- financial assets in the form of borrowing and does not result
	in ownership of an asset
	e.g. portfolio invest

 sum of (total) Net balance Equations		Gross
NetEquationsGross foreign equity +gross foreign debt = foreign liabilities (FI) Gross Aus equity abroad + gross Aus lending = foreign assets (AIA)Net FOREIGN EQUITY + net FOREIGN DEBT = Net FOEIGN LIABILITIESForeign investment in AustraliaAustralia- Australia is in the form of debt securities. Debt securities = 63% Equity securities = 37% - Portfolio investment does not result in foreign control of Australian firms - Foreign investment is influenced by profit expectations, interest rate differentials and political stability - Australia represents a secure and safe haven for financial capital.		- sum of (total)
Equations- balanceEquationsGross foreign equity +gross foreign debt = foreign liabilities (FI) Gross Aus equity abroad + gross Aus lending = foreign assets (AIA)Net FOREIGN EQUITY + net FOREIGN DEBT = Net FOEIGN LIABILITIESForeign investment in AustraliaAustralia- Australia is in the form of debt securities. Debt securities = 63% Equity securities = 37% - Portfolio investment does not result in foreign control of Australian firms - Foreign investment is influenced by profit expectations, interest rate differentials and political stability - Australia represents a secure and safe haven for financial capital.		Net
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 interest rate differentials and political stability Australia represents a secure and safe haven for financial capital. 		- Foreign investment is influenced by profit expectations
 Australia represents a secure and safe haven for financial capital. 		interest rate differentials and nolitical stability
capital.		- Australia represents a secure and safe haven for financial
capitali		canital
- Higher interest rates attract portfolio investment chasing		- Higher interest rates attract portfolio investment chasing
high returns		high returns
Trend in net - Net foreign liabilities	Trend in net	- Net foreign liabilities
foreign liabilities Australia is a recipient of foreign investment	foreign liabilities	- Australia is a recipient of foreign investment
(balance in fin a/c) Both foreign liabilities and foreign assets have increased	(balanco in fin a/c)	Both foreign liabilities and foreign assets have increased
cignificantly in the last 25 years		- Doth for eight habilities and for eight assets have increased
Significantiy in the last 55 years		Significantly in the last 55 years
- Net foreign debt is positive which means Australia borrows		- Net foreign debt is positive which means Australia borrows
Not foreign equity is negative so Australia huvs more assets		Not foreign equity is negative so Australia huvs more assets
than we sell		than we sell
- Overall, net foreign liabilities are positive as the amount of		- Overall, net foreign liabilities are positive as the amount of
net foreign debt exceeds the negative net foreign equity		net foreign debt exceeds the negative net foreign equity
balance.		balance.
- Australia favours borrowing over selling our assets (portfolio		- Australia favours borrowing over selling our assets (portfolio
exceeds direct investment)		exceeds direct investment)
- All of net foreign liabilities is in the form of borrowing		- All of net foreign liabilities is in the form of borrowing
Costs and benefits	Costs and benefits	
of foreign	of foreign	
investment	investment	
BENEFITS - can be derived from the acronym GIFTE	BENEFITS	- can be derived from the acronym GIFTE
Increase in G overnment revenue		Increase in G overnment revenue
- FI increases rate of investment and therefore economic		- Fl increases rate of investment and therefore economic
growth		growth
- Increases tax receipts from income, from higher		 Increases tax receipts from income, from higher
employment and expenditure (GST)		employment and expenditure (GST)
Higher rate of Investment		Higher rate of Investment
- Australia has an investment- savings gap where Australia's		- Australia has an investment- savings gap where Australia's
small population does not produce enough savings to meet		small population does not produce enough savings to meet
investment needs		investment needs

	- Australia relies on foreign investment to achieve a higher
	rate of investment
	- A higher rate of investment increases aggregate demand
	hence a higher rate of economic growth
	Finances capital
	- Foreign investment provides finance for industries to
	nurchase more canital stock
	- A higher level of capital stock will increase aggregate supply
	increasing economic growth and lowering price levels
	Encourages the transfer of Technology
	- Foreign direct investment encourages the transfer of new
	ideas and technologies
	Higher quality goods and convises
	- Higher quality goods and services
	- Increases aggregate supply and international
	An in an and in a new sets sum have ill in an and a set sets in a
	- An increase in aggregate supply will increase economic
	growth.
	Finances Economies of scale
	- Provides necessary finance for economies of scale
	 Increases efficiency and international competitiveness
	- Capital deepening
COSTS	
<u>COSTS</u>	Loss of economic sovereignty
	- increases in foreign equity results in more foreign control/
	loss demonstic control of consta
	less domestic control of assets
	 less domestic control of assets Foreign ownership could challenge domestic
	 less domestic control of assets Foreign ownership could challenge domestic political/economic agendas
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	Increase in structural unemployment
	- Companies are restructured to reduce costs
	- Sectors which receive significant investment expand at a
	faster rate than the other sectors
	 Shifts employment (e.g. retail to mining)
Foreign debt	- Borrowing overseas by Australian resident's (loan from
	overseas)
	- Foreign debt can be both private (firms) or public
	- In Australia
	74% = private 24% = public
	 Private debt is preferable as the public debt is a burden on taxpayers
	- Private debt derives economic benefits
	- Most private debt (70%) is paid within 5 years
ls foreian debt a	- While certain costs can be identified with foreign debt. it
problem?	must not be forgotten that there are also benefits
	 If debt results in a higher rate of economic growth and a
	higher level of investment then the economy will gain
	Benefits
	- Australia's national balance sheet shows that while
	Australia's foreign liabilities have increased over time, so has
	Australia's assets
	- Australia's assets have increased at a faster rate than
	liabilities
	Costs
	- Aus credit rating may be downgraded, meaning that future
	borrowing will be subject to an increase in interest rates
	- Higher interest rates lower standard of living/ decrease in
	disposable income
	- If TOT decreases, export revenue decreases, increases
	burden of debt
	- If AUD decreases, increase size of foreign currency
	denominated debt, further increasing interest payments
Why nations trade	Economic efficiency
the nationa trade	 Trade between nations allows countries to specialize in
	industries where their resources are best suited – allocative
	efficiency
	- Nations are endowed with different resources
	- Fach country should specialize in the industry where they
	are best suited and produce a surplus
	- This surplus is then traded with countries specializing in
	other goods
	This allows countries to gain access/consume a lovel of
	- mis allows countries to gail access/consume a level of
1	output which they cannot produce themselves

	- Countries can consume outside the PPC
	- Countries specialize in goods where they have either an
	absolute advantage or a comparative advantage
<mark>Absolute</mark>	- Can determine the good a country should specialize in
advantage	compared to another country
	- Absolute advantage is when one country can produce more
	units of a good than another country
Comparative	- Where one country can produce a good at a lower
advantage	opportunity cost than another country
	- Countries will specialize in goods with a comparative
	advantage when one country has the absolute advantage in
	both goods.
Partial	- In order to increase total production of both goods, the
specialization	country who has the absolute advantage in both goods, will
	allocate some resources to producing the good it doesn't
	have the comparative advantage in producing
Comparative	1. PPC
advantage steps	2. Absolute advantage
. .	3. Opportunity cost
	4. Comparative advantage
	5. Before trade (50% resources allocated)
	6. After specialization
	7. After partial specialization (70, 30)
	8. After trade
	9. Gains of trade
	10. TOT
Gains of trade on	
PPC	Tacos Tacos
	After specialization 20 . After made.
	so After Mual 15 - before
	30 - abefore rade 10 - anter Nade
	20-1 5- 00-1000000000
	After spectrum and
	10 20 30 portions 5 10 15 20
	Mexico Kussia
<mark>Assumptions of the</mark>	- Only 2 countries
<mark>theory of</mark>	 Each country only produces two goods
<mark>comparative</mark>	 Total free trade (no gov intervention)
<mark>advantage</mark>	- No transport costs
	 All resources easily transferrable
	- All resources fully employed
Limitations to	- There are more countries
<mark>comparative</mark>	 Countries produce more than 2 goods
<mark>advantage</mark>	- Some countries are not included in free trade agreement

Sources of comparative	 Endowment and quality of resources technology
<mark>advantage</mark>	
TRADE PROTECTION	 measures by the government to give domestic producers an artificial advantage over foreign producers
Aims of protection	 decrease price of exports = subsides increase price of imports = tariffs decrease quantity of imports = quotas/embargos/import licencing/voluntary export restraint
TARIFFS	 tax on imported goods which result in an increase in world price S(d) represents domestic supply
	World price (Pw) is determined by the foreign supply curve (Sf)
	E E Therease in producer surplus (1) net welfare loss (2,4) Government tariff revenue (3) S UK
	P2 P1 Q1 Q2 Q3 Q4 Q4 Q4 Q4 Q4 Q4 Q4 Q4 Q4 Q4 Q4 Q4 Q4
	 When the market is open to free trade, the price is at P(w) At P(w), domestic consumers are willing to buy Q1
	 Domestic producers are willing to sell Q2 This creates a shortage in the market, which is made up by imports
	 The government will implement a tariff on imports in order to give domestic producers an artificial advantage The tariff placed on imports shifts the foreign supply curve
	 and raises the price to T At price T, domestic consumers are willing to buy goods at O4 domestic producers are willing to sell O3
	 This creates a shortage in the market which is made up of imports The area 2 represents government revenue.
	- The area 3 represents government revenue
Effects of a tariff	Consumer surplus falls
	Consumer real cost falls
	 Some consumer surplus is lost to DWL, some to producers and some to government revenue



SUBSIDES –	Price
Domestic	S1
producers of	82
exports	
chperto	
	30
	subsidy
	16
	100 140 Q
	www.economicshelp.org
	 At Pw, consumers willing to buy at Q2
	 domestic producers willing to sell at Q1
	- this creates a surplus in the market, which is made up by
	exports
	- the subside to domestic producers will increase the domestic
	supply curve from S(d) to (s) as production costs fall
	 the price remains at Pw therefore domestic consumers
	continue to demand Q1
	 However, domestic producers are now willing to sell Q3
	 The surplus (Q1-Q3) is made up of exports
Arguments FOR	CANTDIE
protection	C = Cheap labour
	A = Anti-dumping
	N=National defence
	T = Trade balance
	D = Diversification
	I = Infant industry
	E= Employment
Cheap labour	- Australian industries need to be protected from industries
	where wages are low
	- Australian workers receive a nigner wage because
	productivity is higher
	- Countries nave an abundance of labour relative to other
	resources with comparative advantage
	- Australians need an artificial advantage because we cannot
Anti dunaning	Compete with overseas cheap labour
Anti-aumping	If a company exports a product at a price lower than the price it
	usually charges on its own nome market, it is said to be dumping a
	product Deinte for
	Points for
	- Foreign firm is engaging in unfair competition in order to
	drive out domestic producers

	- Overseas firm may be large enough to sustain short run
	losses by selling at low prices, and increase its price in the
	long run
	 May also occur when firms have large surpluses
	- They cannot sell in their own market or their product has
	been banned
	 Firm will try and offload product in overseas market for
	whatever price they can get
	- If dumping does cause harm temporary protection may
	deter this sort of activity
	Counterargument
	- Hard to determine if dumning is actually taking place
	Countries could just have productive officiancies
National defense	- Countries could just nave productive enciencies
National defence	- Import barriers necessary to protect industries that are vital
	to the economy
	- Argument was popular in the era of global conflict
	<u>Counterargument</u>
	- Trade fosters international cooperation, while protectionist
	policies reduce it
Trade balance	 Irade deficit should be eliminated/reduced by restricting
	imports through protective measures
	Counterargument
	 Assumes there is something wrong with a trade deficit
	 Implies that a trade surplus is favourable/vice versa
	 Protectionist policies designed to decrease imports
	 Will cause exports to decrease, too
	- Protection raises the cost of other domestic industries which
	reduces their competitiveness and therefore their exports
	 Other countries may retaliate and impose restrictions on
	their imports
	 Both imports and exports can bring gains to the economy
Diversification	- If a country fully applied comparative advantage, it may
	specialize in a narrow range of products
	- If all resources were applied in one industry, changes in
	world demand prices could have significant effects on the
	economy
	- A country may benefit from diversifying their industrial base
	 Protection may then be justified to establish a range of
	diversified industries
	- Over time, industry may increase efficiency and become
	competitive so that in the long run, level of protection can
	be reduced
	Counterargument
	- countries have a comparative advantage in multiple
	industries
	 economies are dynamic and change constantly

	 government shouldn't predict which industries will
	expand/contract
Infant industries	 new industries need protection until they can take
	advantage of economies of scale
	 argued that they will become internationally competitive
	over time and develop comparative advantage
	 may be justified in short term, but should be frequently
	reviewed and progressively reduced over time
	Counterargument
	 protection tends to become long term rather than short
	term
	 becomes accustomed to operating with little comp
	 incentive to innovate/increase efficiency is removed
Employment	 protection will shift consumer spending from foreign goods,
	to domestic, creating jobs
	 employment may rise in protected industry
	Counterargument
	 other domestic industries will suffer
	- increase in unemployment in industries which use protected
	goods, as production costs are higher
	 consumer real cost falls for other industries
TRADE	 refers to removal/reduction of protected trade barriers such
LIBERALISATION	as tariffs, subsides and quotas for a freer flow of goods and
(free trade)	services between nations
	 based on the principle of comparative advantage, where
	countries specialize in goods where they have the lower
	opportunity cost than other countries
	 this will increase worlds production of goods and services,
	enabling countries to access output beyond productive
	capacities
	 producing goods with a low opportunity cost allows
	economies to allocate resources to their optimal level
	- this can be illustrated in the market by an increase in total
	surplus
	- torms of protection, such as tariffs and subsides cause a
	reduction in total surplus, creating a DWL



Benefits to	- Consumers obtain a greater range of goods and services
consumers	- The increase in competition ensures g and s are supplied at
	lowest prices
Eoreian exchange	- When overseas huvs Australia's goods, we receive hard
r oreign exchange	- When over seas buy's Australia's goods, we receive hard
gains	
	- This money is then used to pay for imports which are
	produced more cheaply overseas.
Employment	 Trade liberalisation creates losers and winners as resources
	move to more productive areas of the economy
	 Increase in employment in export industries
	- Decrease employment in import competing industries, due
	to the competitive environment
Economic growth	- Countries involved in free trade experience rising living
	standards, increased real income, higher rates of growth
	- This is created by more competitive industries, increase
	productivity efficiency production levels
Free Trade	Types
agreement types	1 BL lateral (CHAETA ALISETA)
agreement types	2 Multi lateral (more than 2 nations of a AANZETA)
	2. Multi-lateral (more than 2 hations e.g. AANZFTA)
	3. Regional (same geographical union e.g. EU, NAFTA, ASEAN)
Freetrade	"Agreements between nations as a means of closer economic
agreement	integration, through the elimination of tariffs and trade barriers
	which inhibit the international flow of goods, services and
	······································
	Investment
	Investment
Trade blocs	 Regional FTA's act as 'trade blocs'
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	 long term benefits (international investment, economic
	development)
Disadvantages of	 can divert trade from cheaper markets which are available
free trade	 economic benefits are often overstated
	 selective with political interests ensuring continuing local
	industry protection
	can be inequitable
	 more complicated business environment for traders and
	investors
Globalisation	opening up of international borders to the flows of trade,
	investment, immigration, information and technology
	freer movement of people, goods, capital and ideas due to
	increased economic integration
	in turn, is propelled by increased trade and investment
Indicators of	increasing capital inflows
increased	global exports increased
globalisation	rising value of trade
	growth in internet usage
	Increased migration
	growing tourism
	growing importance of trade in the world economy TRADE LIBERALISATION
globalisation	1. TRADE LIBERALISATION 2. INFLUENCE OF WORLD TRADE ORGANISATIONS
giobalisation	3 TECHNOLOGICAL ADVANCES
	4 FOREIGN DIRECT INVESTMENT AND THE GROWTH OF MNC'S
Trade	- Involves the reduction/removal of trade barriers such as
liberalisation	tariffs and subsides
	 Allowed increase of flow of goods and services between
	countries
	- Since 1990, world tariff rates have dropped from 29% to 9%
	- Clear link between increased trade and increased growth
	- WTO, IMF, RTA
World Trade	 Established 1st Jan 1995
Organisation	 Deals with rules of trade at a global or near global level
(WTO)	 Aims to promote trade liberalisation
	Functions
	 To administer to WTO agreements
	 Provide a forum for trade negotiations
	Handle trade disputes
	 Monitor national trade policies
	Give technical assistance
	 Training for developing countries
	Cooperate with international organisations
INTERNATIONAL	• 188 countries
MONETARY FUND	 works to foster global monetary co-operation
(IMF)	secure financial stability

	facilitate international trade
	 promote high employment + sustainable growth
	 reduce poverty around the world
	Provides
	 loans to help countries overcome economic difficulty
	- technical assistance and training
REGIONAL TRADE	 actions by governments to liberalise/facilitate trade on a
AGREEMENTS	regional basis
(RTA)	 sometimes through free trade agreements or custom unions
(E.G. ASEAN, NAFTA, FU
Technology	> Transport
	 Communication
TRANSPORT	Technological development in transport has affected road
	rail sea and air travel
	 Helps boost trade and tourist travel
	Changes way we do husiness
	 Super tankers have increased the scale of trade between
	countries
	 Container shins can carry larger quantities of goods
COMMUNICATION	Advances in IT and internet have enabled growth in trade of
COMMONICATION	• Advances in thand internet have enabled growth in trade of
	 Labour now being outcourced to countries where there is a
	• Labour now being outsourced to countries where there is a
	 Dramatic developments in telecommunication technology
	 Internet allows people in countries around the world to
	• Internet allows people in countries around the world to
Eoroign direct	Befors to invostment which leads to 10% or more ownership
investment	• Refers to investment which leads to 10% of more ownership of a foreign asset
mvestment	 EDL establishes long lasting links between economies
	 Increasing EDI has led to significant growth in the role of
	multinational cornorations
	 Allows for the transfer of technology and management skills
	 Since 1980, EDI has increased from 6% of world CDP to 30%
	in 2010
Growth of	Very large firms with headquarters in one country and
Multinational	subsidiaries in one or more countries
Corporations	 In 40 years, MNC has increased from 7000 to 100 000
	 MNC's account for ½ of global GDP
	 Provides a significant increase in potential earnings as
	onerations spread across borders
	 Globalisation and technological revolution have created new
	expansion opportunities for corporations
	MNC's and the global economy
	- 70% of world trade controlled by 500 MNC
	- top 200 have a combined sales equivalent to 28% of world
	GDP

	 small group of MNC's control 80% of world economy
	- US corporations dominate top 200 with 82 slots
Arguments for	Access to a wider variety of goods and services
globalization	Lower prices
	More and better paying jobs
	Increases comp and efficiency
	Increases economic growth
	Increases living standards
	Enabled developing countries to access foreign investment
	Increases multiculturalism
Arguments against	Higher unemployment amongst unskilled workers
globalization	Entrenches use of child labour
	Lowers wages
	Destroys local cultures
	Worsens poverty
	Unfair to developing countries
	Volatile capital flows have destabilised developing
	economies
	Increases environmental damage
GLOBAL MARKETS	 The process of globalisation has increased significantly over
(GLOBAL	the past few decades
	 Countries are becoming increasingly integrated
E)	 The four main link ages between economies are'
	> TRADE
	> TOURISM
	➢ IMMIGRATION
	> INVESTMENT
	A status lie as lies has site and families investor and in and as to fill
	 Australia relies neavily on foreign investment in order to fill the investment service and service.
	the investment savings gap
	• Immigration has been essential to the economy in regard to
	Importing labour skills to address Australia's relatively small
	 International tourism has grown in importance due to importance due to
	Improvement in transport and communications
	• Tourism is Australia's 5 th ranked export
	• 10-20% of investment comes from overseas
Global trade	there is a positive relationship between trade and growth
	• exports contribute to 23% of GDP and 24% of Australian
	workers are directly involved in trade related activities
	 world exports as a % of GDP has increased from 21% in 1995
	to 30% in 2017
	 composition of trade is divided up into 3 main categories –
	agriculture, mining and manufacturing
	 manufactured goods dominates at 70%

International	 International competitiveness has a significant effect
competitiveness	 Changes in international competitiveness will affect the
	BOGS in the current account in the BOP
	• Import replacement goods also affect the volume of imports
	purchased
Measurement of	Real unit labour cost (RULC)
international	Relative value of AUD
competitiveness	- Australia will become less internationally competitive in
	export markets if its prices rise more quickly than
	competition
	- Australia will become less internationally competitive if the
	value of AUD appreciates relative to currency of competitors
	(favourable TOT)
Recent trends in	- An increase in RULC, TWI and CPI will lead to a reduction in
competitiveness	competitiveness relative to Australia's major trading
	partners
	- Fall in these measures will lead to improvement of
	international competitiveness

UNIT 4: MACROECONOMICS

<mark>Macroeconomic</mark>	➢ LEADING		
<mark>indicators</mark>	Change before a direction becomes evident in the rest of the economy		
	Therefore, predicts trends in economic activity		
	e.g. investment, consumer sentiment		
	> CO-INCIDENT		
	Move at the level of economic activity		
	e.g. manufacturing output, production of building materials, retail sales, in		
	> LAGGING		
	Not expected to show any change until after the economy has been confir		
	These indicators appear to react to developments which occurred in the p		
	e.g. unemployment levels, savings		
<mark>Business cycle</mark>	- An economic model used to illustrate the pattern of economic activi		
	Peak Peak Peak Contraction Trough Time Copyright Money-Zine.com		

	- the business cycle illustrates 2 key trends of economic activity over
	1. Cyclical pattern of economic activity
	UPSWING
	DOWNTURN
	BOOM
	TROUGH
	2. Long term growth
	• over time
Characteristics of each	Aggregate income, output and expenditure
phase	- Growth
	- Unemployment (type)
	- Inflation
	- Interest rates
	- CAD
воом	- Level of economic activity/rate of growth is higher than normal
	high consumer sentiment
	high consumption expenditure
	high business profits
	high productivity
	Iow cyclical unemployment
	high inflation
	high level of borrowing
DOWNSWING	➤ falling AE
	decreasing interest rates
	decreasing prices
	increasing cyclical unemployment
	decreasing borrowing
TROUGH	 level of aggregate expenditure is below the economy's potential
	high cyclical unemployment
	decrease business profit
	Iow consumer and business sentiment
	higher savings rates
	decreased discretionary income
UPSWING	Early
	businesses innovate to create competition
	unemployment rising
	prices are not increasing
	room to grow
	Late upswing
	CAD worsens



	Exchange rates
	Interest rates
	World growth
	Level of economic activity
	Tax rates
	Level of disposable income
	Population
	Consumer sentiment
Aggregate supply (AO)	Refers to total planned output at each price level
	• Unlike the micro version of the supply curve, the production of good
	increase indefinitely as resources are limited
	cAS curve can only increase at each price level to an extent
	 AS A



ADAS model



- However, placing significant pressure on prices to rise to PE1 as the

	 This creates high demand-pull inflation as there is "too much money As the economy nears full employment, unemployment will fall as la unemployment to equal zero
<mark>Short run aggregate</mark> supply	 The short run aggregate supply curve represents the level of output It is positively sloped because output can be increased as price rises The SRAS curve will shift if there is a temporary change in the level c In other words, it does not alter the productive capacity of the econ FACTORS AFFECTING SRAS Costs of production Negative supply shocks Price of imports
Long run aggregate supply	 the LRAS represents the economy at full employment the curve is vertical as it represents the maximum level of output FACTORS AFFECTING LRAS increased efficiency technology











ADDING INVESTMENT TO THE AE MODEL

Assume investment is autonomous (unaffected by changes in incom

4,0	C	S	1 10	<u>C+1</u>
0	70	-70	50	120
100	140	- 40	50	190
200	210	- 10	50	266
300	280	20	50	330
400	350	50	+ 50	400
500	420	80	50	470
600	490	110	50	540
700	560	140	50	610
800	630	170	50	680

Average propensity to	proportion of total income which is spent on consumption		
consume	$APC = \frac{C}{Y}$		
Average propensity to	 as the levels of income in the economy rises, the APC falls as spende 		
save	income is earned		
	 as the levels of income in the economy falls, the APC rises 		
	$APS = \frac{S}{V}$		
THE MULTIPLIER	 an autonomous change in a component of aggregate expenditure v 		
	income		
	• the multiplier effect is due to the portion of extra income that is spe		
	income levels in the future		
Positive multiplier	refers to an autonomous increase in a component to AE		
Negative multiplier	 refers to an autonomous decrease in a component of AE refers to an autonomous change in investment 		
Investment multiplier	 refers to an autonomous change in investment refers to an autonomous change in G 		
Government multiplier	 refers to an autonomous change in G only includes one external sector (besides HH and FIRMS) 		
<u>SIMPLE multiplier</u>	- only includes one external sector (besides HH and FIRMS)		
COMPLEX multiplier	 considers all external sectors when determining the multiplier effective Includes all 5 sectors of the economy when determining the multiplication 		
	- Includes all 5 sectors of the economy when determining the multipli		
	from an autonomous change in a component of AE		
Multiplier process	Assumptions of sectors		
	1. 4 periodic changes		
	2. equation K = size of multiplier		
	3. final change in income		
	4. AE model		
	$K = 1 \div (1 - MPC)$ (In most cases, just MPS)		
	$1 \div (MPS)$		
	Amount of investment $ imes$ multiplier		
	7 investment		
	AE 45°		
	C+1+01		
	at C+I		
	AN AN AN		
	AF		
	Ay, Ao		
	YE YEI		

	- The diagram illustrates the multiplier process of ho	ow an autonomou
	greater change in aggregate income	
	- The initial increase in investment of 1000 caused a	n increase in AE f
	 This cause y to increase from b to c 	
	- Which results in an increase of induced consumpti	on from point c to
Size of MPC and	there is a direct relationship between the size of	ne MPC and the si
multiplier	The higher the MPC, the greater the multiplier effective	ect on the econom
	- As a higher MPC means a greater portion of extra i	income is spent, it
Reference	- Demand and supply (+ efficiency) sources of growt	:h
<mark>unemployment,</mark>		
growth and		
inflation from		
<mark>year 11 unit 2</mark>		
<mark>notes</mark>		
ECONOMIC POLICY	 Full employment (4-5%) 	
OBJECTIVES	Price stability (2-3%)	
	Sustainable growth (2.5-3.5%)	
	Equitable income distribution	
	Efficient resource allocation (including increase in	productivity)
Compatible objectives	 In the government's attempt to achieve 1 objective 	e, the policies imp
	achievement of another objective	
Conflicting objective	 In the government's attempt to achieve 1 objective 	e, the policies imp
	achieve another objective	
Compatible and	Compatible	Conflicting
conflicting objectives	Sustainable growth and full employment	price sta
	Sustainable growth and efficient resource	• growth a
	allocation	equitable
	Price stability and efficient resource allocation	resource
	Full employment and equitable income	 sustainal
	distribution	efficient
Government policies	1. Fiscal policy	
	2. Monetary policy	
	3. Productivity reforms	
FISCAL POLICY	Changes in the level of taxation and government sp	pending in order t
	 Fiscal policy can be used to macro manage the eco 	nomy, attect allo
	(allocative function) and redistribute income away	from high to low
	Fiscal policy has a multiplier effect	
Stabilizing function	Contractionary fiscal policy	

	- Use of taxation and government expenditure to reduce the level of
	- This involves implementation of a BUDGET SURPLUS, where taxation
	Expansionary fiscal policy
	- Involves implementation of a BUDGET DEFICIT, where government e
	- Use of government expenditure and tax to increase the levels of ecc
Discretionary and non-	Discretionary FP
discretionary fiscal	- DELIBERATE actions by the government to change levels of taxation
policy	- Structural component
	- Federal budgets
	Non-discretionary FP
	- AUTOMATIC changes to the levels of taxation and expenditure
	- Cyclical component
	- Automatic stabilizers
Automatic stabilizers	• Automatic changes to economic behaviors which have a stabilizing ϵ
	• There are 4 major types of stabilizers; SAVINGS, TAXATION, GOV SF
	- DAVINUS MALLING
	omi
	uor
	Staball
	effer
	discus
	<u> </u>
	fiscal
	THE CONSTRUCT OF THE WORL OF THE WORL SHED
	in the second
	- the levels of ST(1) gent
	• the levels of S, T, G, M automatically change in response to econom
<u></u>	the business cycle
3 types of budgets	1. surplus
	2. deficit
	3. palanced
	Budget deficit
	If the size of the budget deficit is less the previous years, it is considered re
	Budget surplus

	If the size of the surplus is less than previous years, it is considered relative		
<mark>Net financial</mark>	• NFR refers to the borrowing requirement of the government in orde		
<mark>requirement</mark>	• It is the difference between the amount the government requires to		
	government has to lend		
Budget Deficit	Exists when government expenditure exceeds government revenue		
Financing a deficit	Selling government bonds - causes 'crowding out'		
	Borrowing from the RBA – Increase in money supply, borrowing fro		
	Selling government assets		
Crowding out	> Use past assets		
Crowaing out	Government will offer borrowers a nigher interest rate		
	 In order to attract loanable funds to the public sector and away from deficit, the government will increase the interest rates on hende 		
Cocondary offects of a	Betiring debt		
deficit	- Retiring debt		
Fiscal policy during a contraction	MODELS SHOWN BELOW		
	AE MODEL		
	AE AE AE (def) (def)		

	ADAS MODEL
	$EI \qquad ERAS \qquad SRAS \qquad SRAS \qquad SRAS \qquad OE OE(fe) \qquad Real$
Budget surplus	Government revenue exceeds government expenditure
Ways to use a surplus	 Retire government debt Fund future expenditures including future debts Return to taxpayers Government lending
Crowding in	 NFR is negative as the government does not require funds Private sector will be over-crowded with investment as the government Has a paradox effect
Secondary effects of a surplus	Lower spending decreases economic growth

	ADAS MODEL 2	
		P LRAS
		SP SP
		PEF
		100
		OMA DE
		0(tc)
How can fiscal policy be	1. Full employm	ent
used to achieve EPO's	2. Price stability	
	3. Sustainable g	rowth
Full employment	- To achieve th	e objective full employment, the government will ador
	implementing	g a budget deficit
	- Increasing the	e level of G, relative to T will cause the levels of AD to i
	(INSERT AE MODEL)	
	- At YE (def), th	e economy is operating at a level of income output be
	- The economy	is not fully utilizing all their resources, including labor,
	 Increasing gov 	vernment expenditure, through the implementation of
	increase to Al	E(fe)
	- The economy	expands to a higher level of income and output as out
	and labor incr	reases, too
	- Therefore, cy	clical unemployment decreases as the economy increa
	- Removes the	deflationary gap
Price stability	- Decrease in d	emand pull inflation
	- Contractionar	ry fiscal policy (surplus)
	(insert AE model)	
	Prices go down	
Growth	- Increase in AE	E – demand source

	- Increase in GDP, sources of growth
	- Expansionary fiscal policy- budget deficit
	(insert LRAS, AE MODEL)
<mark>Planned vs actual</mark>	• A budget is a plan of the expected revenue showing the revenue and
<mark>budget outcome</mark>	time period
	• The planned budget outcome (determined before the financial year
	outcome realized at the end of the financial year
Time lags	Decision
	- Time, it takes for a decision regarding economic policy is determine:
	Implementation
	- Time, it takes to put the economic policy into effect
	Effect
	- Time, it takes for the economic policy to achieve its purpose/goal
Budget Outcomes –	Unanticipated changes in economic activity
Why are they different?	Unanticipated changes in world market conditions (WCP, oil)
	Unanticipated exogenous factors (supply shock)
Effectiveness of fiscal	STRENGTHS
<mark>policy</mark>	Effect lag is shorter than monetary policy
	More control over the economy than monetary policy – controls spe
	Selective – can target certain aspects of the economy
	More effective in a trough than monetary policy
	WEAKNESSES
	Decision time lag is longer than monetary policy
	Implementation time lag is longer than monetary policy
	Fairly inflexible as decisions are made annually, whereas monetary p
	Political constraints
	May not compliment state budget outcomes
<mark>Government's fiscal</mark>	1. Medium term strategy
strategy	2. Budget repair strategy
Medium term strategy	 Based on achieving budget surpluses
	Using budget surpluses to boost productivity and workforce particip
	Aims to strengthen Australian economy while keeping taxes low and
	health, welfare, defense, education
Budget repair strategy	 Using budget savings.\/cuts to expenditure to offset any new spend
	budget surpluses to pay off public debt and improve Australian gove
MONTEARY POLICY	Refers to those actions taken by the RBA to affect the monetary and
	Affects the price of money and credit
	Influences the borrowing/lending activities within the financial sector
	Principle tool used in monetary policy is the setting of the cash rate

Cash rate	Interest rate set by the RBA on overnight loans in the short-term mc
	Set on overnight loans (banks loaning from the RBA)
	> As a means of stabilizing the economy through monetary policy, the
	rate changes
Interest rates	The cost(price) of borrowing (money)
	Nominal interest rate
	 Cost of borrowing which does not take into account inflation
	<u>Real interest rates</u>
	• Takes into account inflation when determining the cost of borrowing
	Real interest rate = nominal I/R – inflation rate
Market interest rates	Market interest rates, like any other price, is determined by the pric
	DLF= demand for loanable funds. Determined by the borrowers of money SLF= supply for loanable funds. Determined by the lenders of money
Determinants of	Level of economic activity
interest rates	 Size of public debt (budget deficit/surplus)
	RBA stance of monetary policy
Stance on monetary	Expansionary monetary policy
policy	(decrease in interest rates) EASING MP
	- Expansionary monetary policy is typically a cash rate of less than 3%
	Neutral monetary policy
	- Setting of the cash rate that will not strongly impact borrowing and
	- Neutral stance is typically a cash rate between 3-3.75%
	Contractionary monetary policy
	(increase in interest rate) TIGHT MP
	- Contractionary MP is typically a cash rate higher than 3.75%
Open market	Open market operations refer to the daily intervention of the RBA ir
operations	fluctuations in the cash rate
	CASH RATE
	- Interest rates set by the RBA on overnight loans in the short-term m
	 RBA acts as a bank for banks
	- All banks in Australia have an account in the RBA called the ESA (exc
	EXCHANGE SETTLMENT FUNDS
	- Funds banks use in order to settle their transactions with one anoth
	- The ESA must be in surplus at all times
	- If there are no sufficient funds in the account, banks will need to bo
	 This is known as an overnight loan (or short-term loan)

- This means the RBA can control the supply curve in the short-term r cash rate Short term money market - D is determined by the borrowers le: banks - S is determined by the RBA - It is perfectly inelastic as they are the only supplier Commonwealth government securities - Sell commonwealth government securities - Decreases supply - Increases supply - Increases supply - Buy government securities - Increases supply - Decreases supply - Decreases cash rate - Expansionary (Below 3%) - Neutral (3-3.75%) - Contractionary (above 3.75) Australia's current MP stance - Expansionary MP with a stance of 0.75p% - Cash rate is at historically low levels - Cash rate fell by 25 basis points from 1.1.25% in June 2019 - Cash rate fell by 25 basis points from 1.2.5to 1% in July 2011 - Cash rate fell by another 25 basis points from 1.2.5to 1% in July 2011 - Cash rate had remained at 1.5% since 2016 1. Stability of Australia's currency - Inflation 2. Full employment - Maintenance of full employment/low unemployment 3. Economic prosperity and welfare of the people of Austra		- The RBA is the sole supplier of these loans
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 3. Economic prosperity and welfare of the people of Australia Growth Change in CR = Change in I/R = Change in AE Decrease in CR= decrease in I/R = increase in AE Refers to how changes in the cash rate influences the economic con which will affect the levels of AE, and therefore, aggregate output, e G is not part of the transmission mechanism The transmission mechanism of monetary policy examines how ch SAVINGS, CASH FLOW. WEALTH/ASSETS. EXCHANGE RATES 		- Maintenance of full employment/low unemployment
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Decrease in CR= decrease in I/R = increase in AE Transmission mechanism - Refers to how changes in the cash rate influences the economic con which will affect the levels of AE, and therefore, aggregate output, e - G is not part of the transmission mechanism > The transmission mechanism of monetary policy examines how ch SAVINGS, CASH FLOW. WEALTH/ASSETS, EXCHANGE RATES		Change in CR = Change in I/R = Change in AE
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SAVINGS, CASH FLOW. WEALTH/ASSETS. EXCHANGE RATES		The transmission mechanism of monetary policy examines how ch
		SAVINGS, CASH FLOW, WEALTH/ASSETS EXCHANGE RATES

Decrease in interest	Decrease in savings	
rates	- Less incentive to earn interest, so people will deposit less	
	Increase in cash flow (HH and firms)	
	- Increase in disposable income	
	- Existing credit payments decrease	
	Increase in value of wealth and assets	
	- Value rises	
	- Shares more attractive than bonds, as rate of return on bonds falls	
	- wealth of shareholders increases, causing an increase in consumptic	
	Depreciation of AUD	
	- Australian I/R/D falls	
	AUQ	
	/ _ SI	
	ER X	
	10	
	0	
	Q WP Q	
	 supply of AUD increases, as consumption increases due to the low in 	
	this causes an increase in import spending	
	 increase in supply causes AUD to depreciate 	
	 decrease of AUD increases international competitiveness 	
	• exports are more competitive, causing an increase in demand for Al	
	 increase in net exports 	
	Decrease CR=Decrease I/R= Increase AE	
Increase in I/R	Increase in savings	
	 higher rate of return on deposits 	
	Decrease in cash flow	
	 HH and firms paying more back on credit 	
	Decrease in value of wealth and assets	
	- Decrease in value as consumers purchasing power is low	

	- Less disposable income to spend on wealth and assets
	Appreciation of AUD - Decrease in demand for AUD
	 Decrease in international competitiveness due to lower interest rate
	Increase in CR= Increase in I/R= Decrease in AE
Full employment and	AE 45
growth	AE(Fe)
	AE(fe) Sdeflation AE (det)
	A EA (def)
	Real 4.0
	Q y(def) y(fe) C (def) (fA) (CA)
	contractionary gap
	00
	DE DEL Real output
	P DE VET AS
	PI A
	P ADI
	AD
	DE DET Real output
	Evennsionary Monetary policy (increase in AE)
Inflation targeting	RBA considers price stability the primary objective of monetary police
	• RBA dropped the policy of targeting inflation between 2-3% in 1993
	 Inflation targeting must be a forward-looking objective rate of inflat distort economic decisions in the economy
Strengths and	Strengths Weaknesses
weaknesses of	
monetary policy	

	Monetary policy is flexible	Blunt policy
	 Decisions are made daily through open- 	 Cannot targe
	market operations	Relies on banks to
	Shorter inside lag than fiscal policy	- Banks are pr
	 Takes only a few hours to decide than FP 	Outside lag is long
	Policy neutral compared to fiscal policy	- Takes time fo
	 The policy is always the same, only the 	changes
	number changes	Less effective in a
	More effective in a peak than FP	 Consumer se
	- Higher rates effectively dampen spending and	Only effective with
	investment	
	Very effective under a floating exchange rate	
	 Causes fluctuation of exchange rates which 	
	affect x and m spending	
Structural change	Involves adjustment in the composition and loca time	ation of production a
	 What is produced, how it is produced, employm 	ent, spending patte
	Complex process involving changes between sec	ctors and within sect
	Involves shift of resources from slower growth a	reas of the econom
	It is a constant process of the economy adjusts t	the changes in the
What happened in the	Australia became a '2 speed' economy	
mining boom	- Fast growth sectors and regions: mineral and en	ergy industries and
	demand from china	
	 Slow growth and regions: trade exposed to man 	ufacturing and servi
	 DUTCH DISEASE – appreciation on exchange rate 	9
	 RESOURCES CURSE – hiding the need for produce 	tivity growth throug
The fall in planned	- Growth in HH spending	<u> </u>
investment in mining	- Growth in residential construction	
has been offered by	- Mining growth	
	- Service exports	
DOMESTIC market-	 Changes of incomes and different levels of incor 	ne elasticity of dema
related causes of	• Discovery and production of natural resources	-
structural change	Research and development	
	Demographic change	
	 Demand side policy stance 	
	 Supply side economic reforms gave the econom 	v flexibility to adjust
INTERNATIONAL.	Emergence of new global hotspots	<u>, </u>
market related causes	Rise in incomes in east and south Asia	
of structural change	 Extent and nature of foreign investment flows 	
	Changes in exchange rates	

	Changes in terms of trade
	 Openness to inflows of foreign investment
	 Openness to skilled migration
	 Monetary policy settings in other countries (I/R/D)
CAUSES of structural	 Post WW2 baby boom causes rapid population
<mark>change</mark>	 Aging population and a lower proportion of productive workers
	 Rapid economic growth in Australia's neighboring countries
	• Disruptive innovation creates a new market for economic value
	 Environmental and sustainability have had significant effects
	Globalization
Macroeconomic impact	Economic growth has been positive since 1991
of structural change	Economy has adjusted to industrialization of china, mining-inv
	investment, high AUD and its depreciation
	Allowed higher material living standards, higher levels of emp
	and a more efficient use of scarce resources
	Economy has benefitted from important reforms such as float
	privatization, reduced level of protectionism
Microeconomic impact	The impact on business and individuals depends on where they are
of structural change	or work
	Within specific industries, experience can vary widely from sector to
	Some HH experience a process of adjustment that is drawn out, whi
	unemployment
	Distribution of income becomes loss even when growth is imbalance
Productivity	Distribution of income becomes less even when growth is imbalance Deletionship between output and inputs (inputs are resources used)
Productivity	 Relationship between output and inputs (inputs are resources used good or service)
	 Broductivity refers to the officiency in which firms can convert production
	• Productivity refers to the enciency in which firms can convert productive
	 Productivity is supply side economics to which an increase in production
	be achieved with the same amount of inputs
	 Governments aim for measures to improve productivity as it will inc
	inflation and increases economic growth
	 Aus government underwent productivity reform to remove any unn
	flow of resources in the market
Difference between	Labor productivity
labor productivity and	 Level of output per 1 hour of labor worked
multifactor productivity	GDP
	NUMBER OF HOURS WORKED
	Multifactor productivity

	- Measures the efficiency of both labor and capital
	- The most reliable measure of productivity
	- Resulting productivity is always greater than its inputs due to the re-
	technology and other factors
Relationship between	Productivity increases supply
productivity and	• This is because increasing productivity means a higher output can be
economic growth	supply within the economy
Areas of microeconomic	 The government achieves productivity growth through microeconor
reform	• MER can be market orientated where the reforms aim to make a fre
	consequences of a changing economy
	• MER can also be interventionist where they aim to remove market f
	• The areas of microeconomic reform can be categorized as PILOT
PRODUCT MARKET	Privatization
REFORM	- Aims to make government business enterprises more efficient by su
	Deregulation
	 Aims to make industries more efficient by removing red tape
	Competition laws
	- Enforced through the ACCC which aims to remove market failure of
	price fixing
INFRASTRUCTURE	 Provide building blocks for the private sector to invest further in prc
	National broadband network
	 Encourages private sector to invest in new ICT equipment and proce
	Transport infrastructure
	 Aims to improve productivity by reducing commute and delivery tim
	 By reducing waiting times, workers have more time to complete pro
	Health and education
	- Ensures workers are healthy, fit and well skilled- increases productive
LABOUR MARKET	Workplace bargaining
REFORM	- Labor wage increases linked to productivity growth rather than infla
	 Provides an incentive for workers to be more productive than expective that expective the expective that expective the expective that expective the expective that expective the expect
	Work choices
	- Almed to reduce the influence of union and allow employers to mor
OVERSEAS MARKET	Unilateral action
KEFÜRIVI	- Removal/reduction of tarms to increase competition with imports
	<u>Free trade agreements</u>
	- Such as mose with China, Singapore, indonesia, Japan
ΙΑλΑΤΙΟΝ ΚΕΓΟΚΙΝΙ	- GST to replace 5 tier wholesale system
	- Decrease in small pusifiess tax rates
	- Self-assessment taxation allows ATO to spend more time assessing t

Impact of productivity growth

 In addition, we can conclude that the economic growth is sustainabl as there is more output, competition for goods and services decreas
 Covernments aim to promote productivity as it best meets all 2 mai

- Governments aim to promote productivity as it best meets all 3 mai international competitiveness of Australia's economy
- If there is more output of exports, we can lower export prices and ir
- Structural unemployment may increase, in the short term, as produtechnological advancement replaces existing labor resources

Negative productivity

