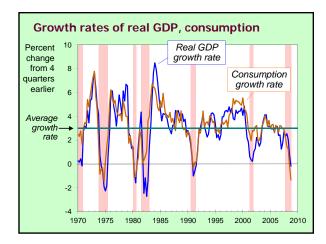
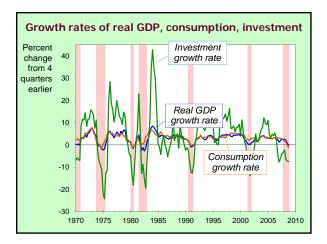


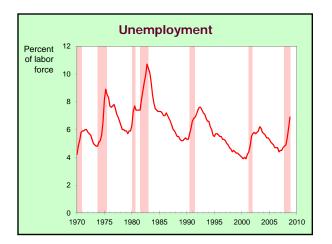
Facts about the business cycle

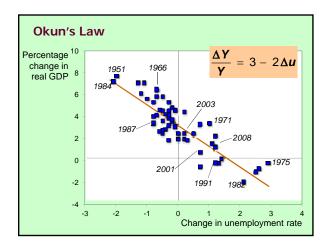
- GDP growth averages 3–3.5 percent per year over the long run with large fluctuations in the short run.
- Consumption and investment fluctuate with GDP, but consumption tends to be less volatile and investment more volatile than GDP.
- Unemployment rises during recessions and falls during expansions.
- Okun's Law: the negative relationship between GDP and unemployment.

CHAPTER 9 Introduction to Economic Fluctuations









Index of Leading Economic Indicators

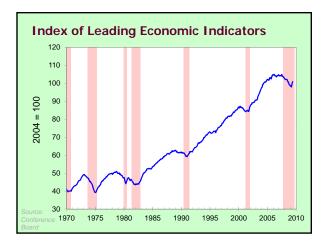
- Published monthly by the Conference Board.
- Aims to forecast changes in economic activity 6-9 months into the future.
- Used in planning by businesses and govt, despite not being a perfect predictor.

CHAPTER 9 Introduction to Economic Fluctuations

Components of the LEI index

- Average workweek in manufacturing
- Initial weekly claims for unemployment insurance
- New orders for consumer goods and materials
- New orders, nondefense capital goods
- Vendor performance
- New building permits issued
- Index of stock prices
- M2
- Yield spread (10-year minus 3-month) on Treasuries
- Index of consumer expectations

CHAPTER 9 Introduction to Economic Fluctuations



Time horizons in macroeconomics

 Long run Prices are flexible, respond to changes in supply or demand.

 <u>Short run</u> Many prices are "sticky" at a predetermined level.

The economy behaves much differently when prices are sticky.

CHAPTER 9 Introduction to Economic Fluctuations

Recap of classical macro theory (Chaps. 3-8)

- Output is determined by the supply side:
 - supplies of capital, labor
 - technology
- Changes in demand for goods & services
 (C, I, G) only affect prices, not quantities.

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- Assumes complete price flexibility.
- Applies to the long run.

CHAPTER 9 Introduction to Economic Fluctuations

When prices are sticky...
...output and employment also depend on demand, which is affected by:
fiscal policy (*G* and *T*)
monetary policy (*M*)
other factors, like exogenous changes in *C* or *I*

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The model of aggregate demand and supply

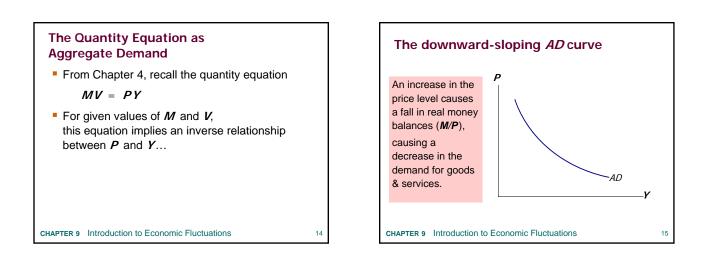
- The paradigm most mainstream economists and policymakers use to think about economic fluctuations and policies to stabilize the economy
- Shows how the price level and aggregate output are determined
- Shows how the economy's behavior is different in the short run and long run

CHAPTER 9 Introduction to Economic Fluctuations

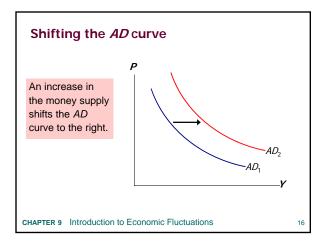
Aggregate demand

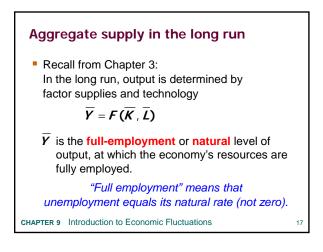
- The aggregate demand curve shows the relationship between the price level and the quantity of output demanded.
- For this chapter's intro to the *AD/AS* model, we use a simple theory of aggregate demand based on the quantity theory of money.
- Chapters 10-12 develop the theory of aggregate demand in more detail.

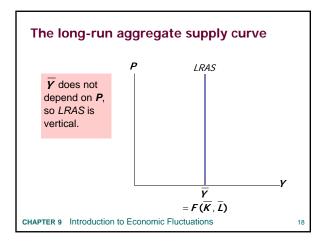
CHAPTER 9 Introduction to Economic Fluctuations

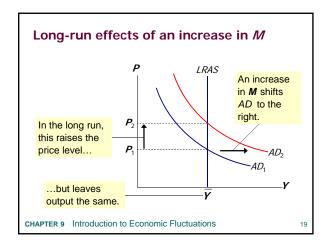


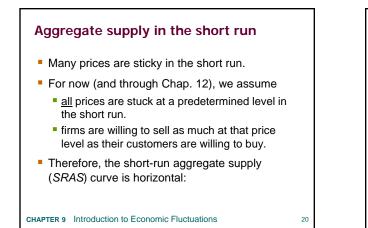
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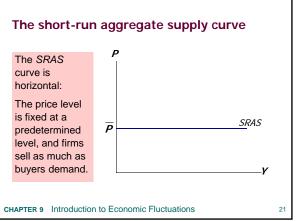


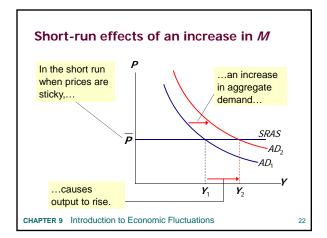


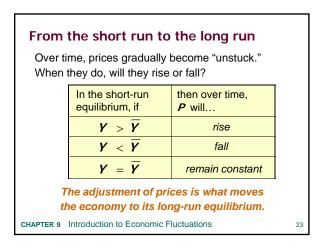


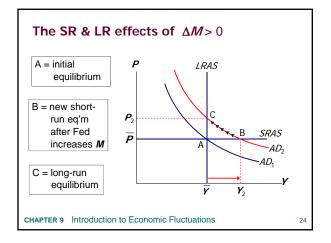


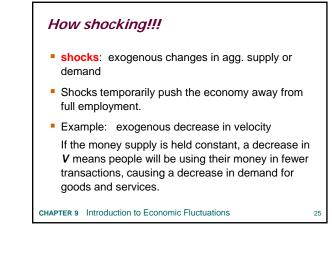


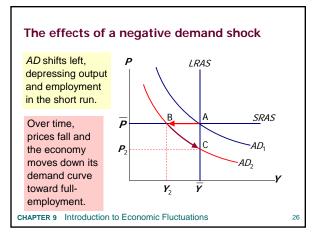








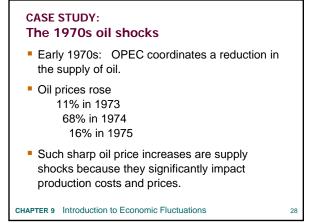


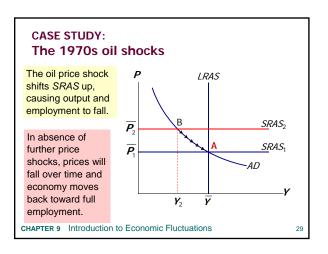




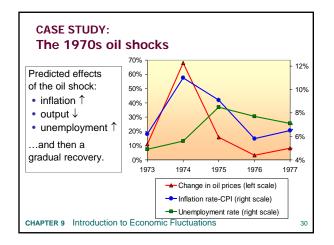
- A supply shock alters production costs, affects the prices that firms charge. (also called price shocks)
- Examples of adverse supply shocks:
 - Bad weather reduces crop yields, pushing up food prices.
 - Workers unionize, negotiate wage increases.
 - New environmental regulations require firms to reduce emissions. Firms charge higher prices to help cover the costs of compliance.
- Favorable supply shocks lower costs and prices.

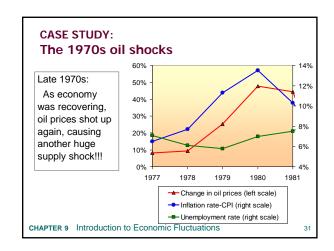
CHAPTER 9 Introduction to Economic Fluctuations

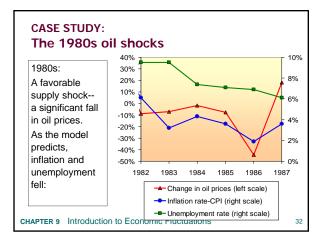


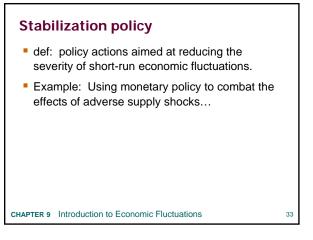


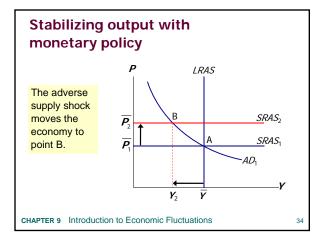
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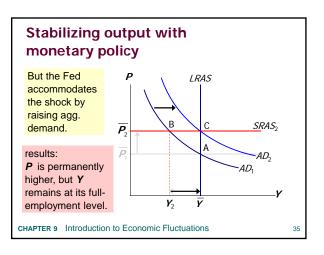














employment are always at their natural rates, and the classical theory applies. Short run: prices are sticky, shocks can push

output and employment away from their natural rates.

- 2. Aggregate demand and supply: a framework to analyze economic fluctuations
- Chapter Summary
 The aggregate demand curve slopes downward.
 The long-run aggregate supply curve is vertical, because output depends on technology and factor supplies, but not prices.
 The short-run aggregate supply curve is horizontal, because prices are sticky at predetermined levels.

Chapter Summary

- 6. Shocks to aggregate demand and supply cause fluctuations in GDP and employment in the short run.
- 7. The Fed can attempt to stabilize the economy with monetary policy.