

### Look for the answers to these questions:

- What are economists' two roles? How do they differ?
- What are models? How do economists use them?
- What are the elements of the Circular-Flow Diagram? What concepts does the diagram illustrate?
- How is the Production Possibilities Frontier related to opportunity cost? What other concepts does it illustrate?
- What is the difference between microeconomics and macroeconomics? Between positive and normative?

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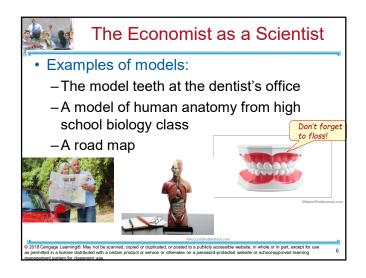
# The Economist as a Scientist Economists play two roles: Scientists: try to explain the world Policy advisors: try to improve it As scientists, economists employ the scientific method Dispassionate development and testing of theories about how the world works

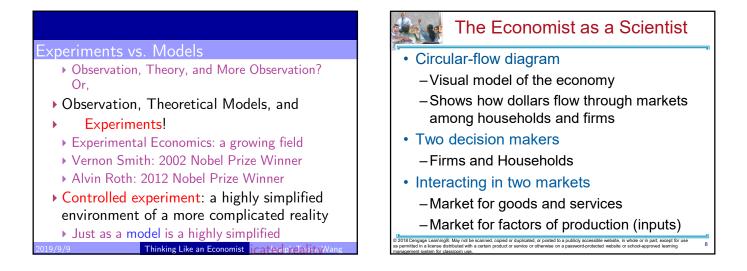
## The Economist as a Scientist

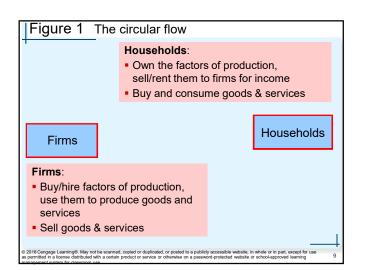
### Assumptions

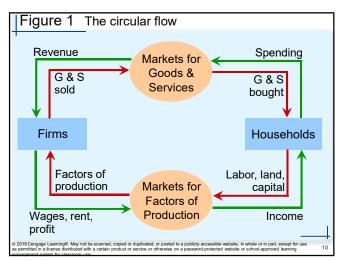
- Simplify the complex world and make it easier to understand
- Example: to study international trade, assume two countries and two goods
- Economists use models to study economic issues
  - Highly simplified representation of a more complicated reality

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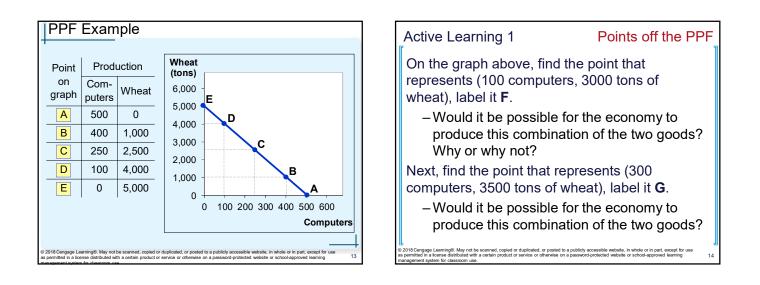


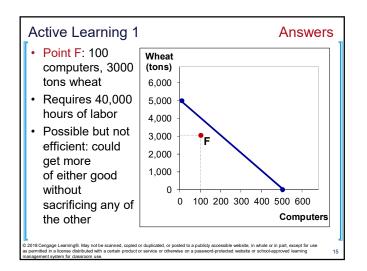
	The PPF	
• Product	ion possibilities frontier	
0 1	bh: combinations of output that the my can possibly produce	
– Given	the available	
<ul> <li>Fact</li> </ul>	ors of production and technology	
–Exam	ple:	
• Two	goods: computers and wheat	
• One	resource: labor (measured in hours)	
• Ecor	nomy has 50,000 labor hours per month	
avai	lable for production	_
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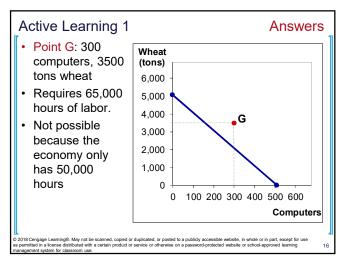
### PPF Example

Producing one computer requires 100 hours labor. Producing one ton of wheat requires 10 hours labor

	Employment of labor hours		Production	
	Computers	Wheat	Computers	Wheat
А	50,000	0	500	0
В	40,000	10,000	400	1,000
С	25,000	25,000	250	2,500
D	10,000	40,000	100	4,000
Е	0	50,000	0	5,000





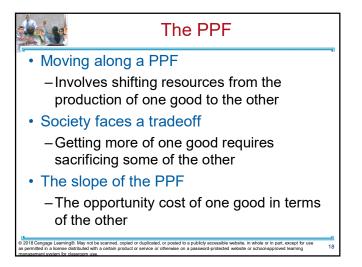


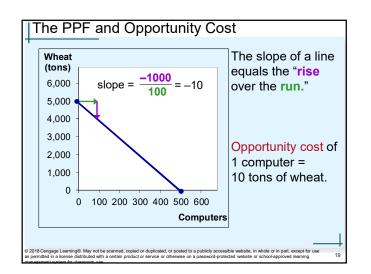
# The PPF: What We Know So Far

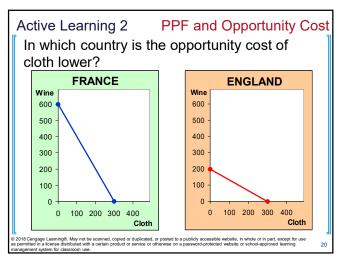
- Points on the PPF (like A E): possible
   Efficient: all resources are fully utilized
- Points under the PPF (like F): possible
  - Not efficient: some resources are underutilized (e.g., workers unemployed, factories idle)

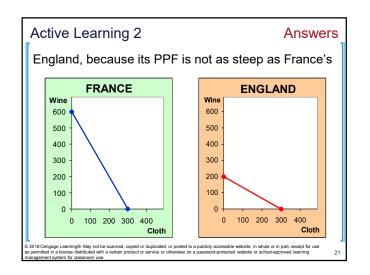
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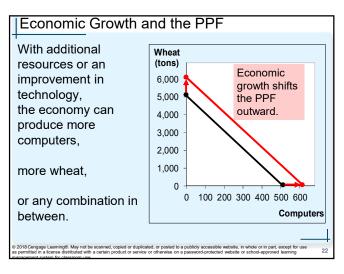
- Points above the PPF (like G)
  - -Not possible

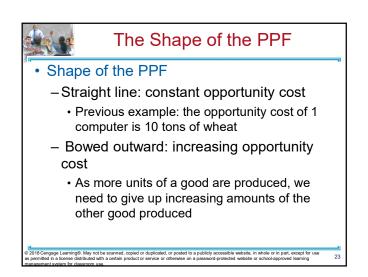


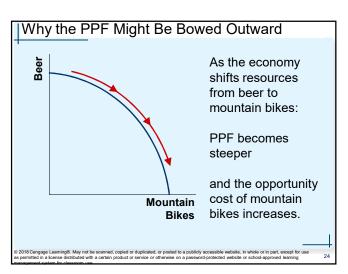


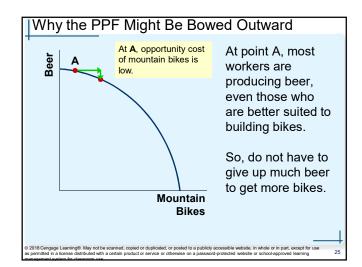


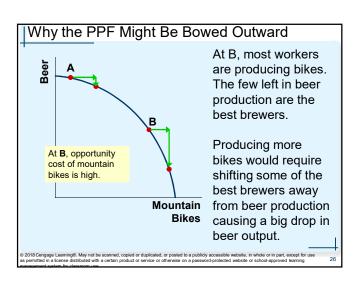


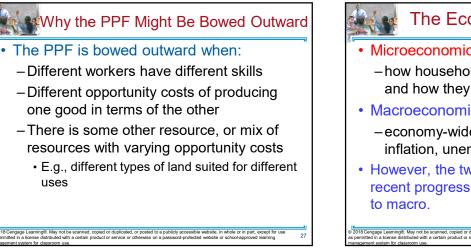


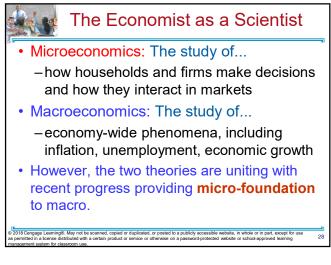








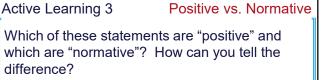




# The Economist as Policy Adviser

- Positive statements: descriptive
  - -Attempt to describe the world as it is
  - Confirm or refute by examining evidence:
     "Minimum-wage laws cause unemployment"
- Normative statements: prescriptive
  - Attempt to prescribe how the world should be: "The government should raise the minimum wage"

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- a. Prices rise when the government increases the quantity of money.
- b. The government should print less money.
- c. A tax cut is needed to stimulate the economy.
- d. An increase in the price of burritos will cause an increase in consumer demand for music downloads.

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Answers

### Active Learning 3

Answers

a. Prices rise when the government increases the quantity of money.

Positive – describes a relationship, could use data to confirm or refute.

b. The government should print less money. Normative – this is a value judgment, cannot be confirmed or refuted.

### Active Learning 3

c. A tax cut is needed to stimulate the economy.

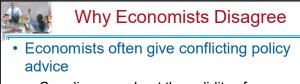
Normative - another value judgment.

d. An increase in the price of burritos will cause an increase in consumer demand for music downloads

Positive – describes a relationship.

Note that a statement need not be true to be positive.

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- Can disagree about the validity of alternative positive theories about the world
- May have different values and, therefore, different normative views about what policy should try to accomplish

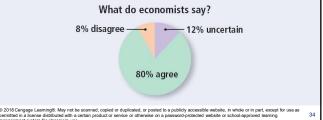
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• Yet, there are many propositions about which most economists agree

### ASK THE EXPERTS

### Ticket Resale

"Laws that limit the resale of tickets for entertainment and sports events make potential audience members for those events worse off on average."



Propositions about Which Most Economists Agree (and percentage of economists who agree)

- A ceiling on rents reduces the quantity and quality of housing available. (93%)
- Tariffs and import quotas usually reduce general economic welfare. (93%)
- The United States should not restrict employers from outsourcing work to foreign countries. (90%)
- The United States should eliminate agricultural subsidies. (85%)
- Local and state governments should eliminate subsidies to professional sports franchises (85%)

Propositions about Which Most Economists Agree (and percentage of economists who agree)

- Cash payments increase the welfare of recipients to a greater degree than do transfers-in kind of equal cash value. (84%)
- A large federal budget deficit has an adverse effect on the economy. (83%)
- The United States should not ban genetically modified crops. (82%)
- A minimum wage increases unemployment among young and unskilled workers. (79%)
- Government subsidies on ethanol in the United States should be reduced or eliminated. (78%)

### Summary

- · Economists are scientists
  - Make appropriate assumptions and build simplified models
  - The circular-flow diagram and the production possibilities frontier
- Microeconomists study decision making by households and firms and their interactions in the marketplace
- Macroeconomists study the forces and trends that affect the economy as a whole

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### Summary

- A positive statement is an assertion about how the world is
- A normative statement is an assertion about how the world ought to be
- As policy advisers, economists make normative statements
- Economists sometimes offer conflicting advice
  - Differences in scientific judgments
  - Differences in values

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### Chapter 2: Thinking Like An Economist

- See how Economists think
- Key Idea:
  - Circular Flow Diagram
- Production Possibility Frontier
- Suggested Homework:
  - Read Appendix on Graphing (Mankiw p. 40-48)
  - Mankiw, Chap.2, Problem 3, 4

2019/9/9

Thinking Like An Economist Joseph