Some of FDR’s programs are still implemented and influencing the U.S. economy.
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Control of Insect Pests

Natural Control

To a certain degree, populations of insects are kept in check by nature

Mammals such as anteaters eat insects. Predatory insects are good at destroying insect pests.

Nature plays a part in insect control (i.e., harsh winter lowers the insect population in an area)

Chemical Control

Chemicals used to control pests since 200 B.C.; they worked some, but not real well.

1930-50, modern pesticides like DDT offered the first effective weapons in the fight insects

DDT found harmed environment & animals so were banned. Less harmful to chemicals now used.
Renewable Energy Resources

**Sun**
- Solar power - can be used to provide heat and electricity.
- Passive or Active systems may be used.
- Solar cells, also know as photovoltaic cells, have been used for spacecraft.

**Water**
- Major use for producing hydroelectricity
- Rise & fall of ocean tides can also be used to generate electricity.
- Water moving through turbines = most efficient way of producing electricity

**Wind**
- Wind spinning blades on a windmill (air turbine) can generate electricity.
- Power production depends on speed of wind, length of blades, & efficiency of windmill.
- Wind power is not the most efficient way of producing electricity. Research is needed.

**Geothermal**
- Heat from the Earth’s interior. Most sources are drilled and controlled like oil wells.
- Areas of volcanic activity have the greatest potential as geothermal sources.
- Ground-source heat pumps are another direct use of geothermal energy.
Theories of Aging

Several aspects of aging

Observations of this …

Elderly persons over the age of 75

Specific things observed

- Multiple problems can occur at once
- Diminished capacity of the aged body to absorb, distribute, metabolize and excrete drugs
- Degenerative changes
- Functions and systems

Led to this theory …

- Require special care because of unique challenges presented by the physiology of aging
- However, advancing age is not necessarily equated with sickness
- Geriatric pharmacology: The elderly receive 25% of all prescription drugs and are often taking multiple drugs
- On an individual basis all organ systems diminished in function: loss of height, change in body proportions, thinning grey hair, changes in movement, etc.
- Changes are found in the Genitourinary, Cardiovascular, & Respiration functions to the Sensory, Musculoskeletal, Nervous, & Gastrointestinal systems

So what? What is important to understand about this?

Theories of aging are supported through the study of Geriatrics, a medical specialty that concerns the care of persons over the age of 75.
New York City

Is about a place where ...

**Terrorist targeted because of its cultural, economic, and political significance**

**Factors that INFLUENCED action's "players" to be here**

- Major economic center
- Twin Towers targeted - tallest buildings in N.Y.
- Towers had about 12 million square feet of rentable office space
- Towers were a major trade center for the U.S.
- Thousands worked or visited the towers daily during

**Notable ACTIONS that occurred at this place**

- Terrorists hijacked commercial jets and used them as bombs to destroy Twin Towers
- Actions caused massive destruction and loss of lives
- Heroic actions of firefighters, policemen, emergency management workers, medical staff and local citizens

**IMPACT of what happened at this place on the world**

- War on terrorism
- Loss of lives, destruction of property, and loss of jobs

So what? What is important to understand about this place?

Economic significance of the towers & N.Y. made the sight a perfect place to insult the American people and wreck havoc on US economy
Censorship of the Press

The role of censorship and how it fits into the 1st Amendment of the Bill of Rights specifically during WW2

**When**

- 1st Amendment = absolute freedom of speech
- Limited censorship
- Abuse of censorship

**Then**

- People are not safe
- People are safer and better off
- Violation of rights

**Because**

- People could yell “fire” in public areas or tell military secrets
- People avoid censorship
- Causes manipulation and yellow journalism

Censorship is a necessary evil, but it can be abused.
**Replacing Articles of Confederation with a Constitution**

Is about ...  
... the weaknesses of the Articles of Confederation and how these were changed by the Constitution.

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<tr>
<th>PROBLEM</th>
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<th>IMPACT</th>
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<tr>
<td><strong>Articles of Confederation</strong></td>
<td><strong>US Constitution</strong></td>
<td><strong>Today's government</strong></td>
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<tr>
<td>Weak national government</td>
<td>Strong national government</td>
<td>System of checks and balances</td>
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<td>Congress could not collect taxes</td>
<td>Congress has the power to collect taxes</td>
<td>Amendment 16 gave Congress to power to tax personal income</td>
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<tr>
<td>Congress could not enforce laws</td>
<td>Congress can enforce laws</td>
<td>Executive branch - carries out the laws</td>
</tr>
<tr>
<td>To amend the Articles, all 13 states had to agree</td>
<td>2/3 of both houses must propose the amendment. ¾ of the states must ratify the amendment</td>
<td>There have been 27 amendments to the Constitution</td>
</tr>
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</table>

So what? What is important to understand about this?

The US Constitution can be changed, but it is very difficult and a slow process. The slowness and difficulty acts as a safeguards against unwise changes.
Understanding the Discovery of Photosynthesis

how the experiments of Van Helmont, Priestley, and Ingenhousz reveal that in the presence of light, plants transform $C_2O$ and $H_2O$ into carbohydrates and release $O_2$.

Van Helmont experiment
- Led to the discovery of the "hydrate," or water portion of the carbohydrate produced by photosynthesis
- Created and experiment to find out if plants grew by taking material out of the soil - massed dry soil and a small seed, after five years the mass of the soil was the same - concluded that the mass of the plant gained came from the water, did not realize air changed it too

John Priestley experiment
- Led to the discovery of the oxygen portion of the photosynthesis equation
- Placed a lit candle inside a jar, it burned out. Then, he placed a mint leaf inside the jar and the candle remained lit because of the production of oxygen by the leaf

Jan Ingenhousz experiment
- Led to the discovery that plants need light to produce oxygen
- Performed Priestly's experiment and discovered that the candle only remained lighted in the presence of light

So what? What is important to understand about this?

Photosynthesis is a series of reactions that uses energy from the sun to convert water and carbon dioxide into sugars and oxygen
Consumerism is about economic goods which are produced for the satisfaction of wants or needs.

**WHEN**

Goods are produced

**THEN**

Someone buys the goods

**BECAUSE**

Satisfaction of wants or needs

**Essential Details**

- **Manual Labor**
  - Worked or done by hand and not by machine

- **Decision Making**
  - What to produce
  - Who is going to do each part of the production process

- **Meeting the demand**
  - Make enough to please everyone’s needs and wants

- **Job Market**
  - The more items to be manufactured = the more jobs there will be

- **Decision Making**
  - Do I really need this?
  - Do I want this

- **When someone buys the goods**
  - The more goods that are in demand (cycle)

- **Advertising**
  - How to get people to buy "your" goods and goods they do not need.

- **Could not live without the good**
  - Example: Food

- **Improvement for something**
  - Example: Eye Glasses

- **For enjoyment**
  - Example: New Television Set

- **Happiness of others**
  - Example: Gift giving

Consumerism results with the provision of jobs, food, and products for communities... ...also produces pollution and wastes resources.
WHEN a policy fails to work

Example of a failing policy

Goal is to …

18th Amendment
Prohibition
Ban on the manufacture, sale, or transportation of alcohol

Features of the failing policy …

People were arrested for attempting to make and sale alcohol
-Increase of organized crime
-People determined to drink were willing to break the law
-speakeasies - places to drink

THEN a new policy is needed

Potentially better policy

Goal is to …

21st Amendment
Repealed Prohibition

Features of the new policy …

Government controls the manufacture, transportation, and sale of alcohol

BECAUSE …

Why is new policy might be better

1st reason …

Legalized consumption of alcohol, and gave government the power to regulate sales and manufacturing of liquor

2nd reason …

It eliminated many of the problems created by Prohibition.

So what? What is important to understand about this?

When governments pass laws that create more problems than they solve, the law should be changed and repealed, if necessary
Oppportunity

Hitler, leader of Germany, threatened opportunity of economy and freedom in other countries.

Hitler invaded surrounding countries to steal their resources for Germany's military.

Hitler moved into dictatorship, forcing military rule on conquered countries. People lost their freedom.

Hitler wanted to take over all European land. The troops of the Axis powers (Germany, Japan, & Italy) invaded U.S.S.R.

Hitler believed the Germans were the superior race and all other races were inferior.

Hitler wanted to dominate the world, so he convinced the Germans to believe Germans where the superior race.


Value

Hitler threatened value in other countries by wanting to be the dominating "Aryan" race.

Hitler threatened safety in other countries by elimination minorities.

Hitler's plan, the "Final Solution" was the ultimate fate of Europe's Jews to murder all of them. (6 million in all)

Jew and communist prisoners were forced to dig a ditch. They were shot & fell into the graves. (25% of 6 million)

The old, ill and young were deceived when lead to showers, but in fact were gas chambers. They died, then cremated. (75% of 6 million)

Germany invaded other countries to increase in power to rule the world as the superior race.
Brown vs. Board of Education of Topeka Public Schools, 1954

The first Supreme Court case to address the segregation of schools.

**Segregated schools**

- Plessy vs. Ferguson: “Separate but equal”
- Topeka operated eighteen schools for white children and four for African American children
- Black children in Topeka traveled past and away from nearby “white” schools to attend “black” schools
- Violated 14th amendment to separate children in public schools race reasons

**Lawsuit Brown vs. Board**

- Fall, 1950: members of the Topeka, Kansas, Chapter of the NAACP challenged “separate but equal”
- Cases everywhere combined to form a mega-lawsuit
- Violation of 14th amendment rights by separating students solely on their race

**Desegregation of Schools**

- U.S. Supreme Court - “segregation unconstitutional” (violation of the Constitution)
- Changed the economic, political and social structure of this nation
- African Americans received a better education with better school supplies
- 1st action to desegregate taken in 1957, took 3 more years of fighting to integrate schools

So what? What is important to understand about this?

Until now, African American and white children were split into separate schools, and the African American children were receiving a lesser education.
Women were asked and expected to engage in typical male jobs such as: welders, electricians, mechanics, and auto assembly line workers.

Additional jobs included shipbuilders, ammunition specialists; seamstress's making everything from uniforms to tents, medical workers, and clerical workers.

During the war the six million women workers narrowed the wage gap between men and women.

Americans doubted that the economy could accommodate six million new women workers along with millions of returning veterans once wartime production had ceased.

With the shadow of the depression still hovering and anxiety over Unemployment a universal response to solve the problem was pushed onto women.

War time duty to produce goods needed for victory was replaced with postwar obligation to withdraw from the labor force. In 1950 women earned 53% of what men did.