

Student Name: <sub>.</sub>	
Class:	
Due Date:	

# **Introduction to Circular Economy (20 minutes)**

#### **Essential Understanding:**

- · Definition of circular economy
- Characteristics of circular economy
- · Benefits of circular economy for the environment

#### Complete these concept checks:

- 1. Define and describe the basic characteristics of a circular economy.
- 2. Provide at least three examples of the benefits of circular economy for the environment.

# **Understanding Circular Economy**

### **Activity 1: Circular Economy Diagram**

Create a simple diagram showing the circular flow of products and services in a circular economy.

- 1. What are the main components of a circular economy?
- 2. How do products and services flow through a circular economy?
- 3. What are the benefits of a circular economy for the environment?

#### **Activity 2: Compare and Contrast**

Compare and contrast the differences between circular and linear economy.

- 1. What are the advantages and disadvantages of each model?
- 2. How do circular and linear economy models impact the environment?
- 3. What are the social and economic benefits of a circular economy?

# **Real-Life Examples and Critical Thinking**

### **Activity 3: Real-Life Example**

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1. What motivated the company to adopt circular economy practices?
What benefits has the company experienced as a result of adopting circular economy practices?

3. What challenges did the company face in implementing circular economy practices?

#### **Activity 4: Banner Design**

Design a banner that promotes circular economy practices in your community.

- 1. What message do you want to convey with your banner?
- 2. How will your banner encourage people to adopt circular economy practices?
- 3. What images or graphics will you use to make your banner visually appealing?

# **Conclusion and Reflection**

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Summarize the main points learned from the assignment.

#### Reflection:

Reflect on what you learned and how you can apply it in your everyday life.

#### **Future Actions:**

What actions can you take to promote circular economy practices in your community?

# **Additional Resources**

## Glossary:

- RecyclingReuseSustainability

### **Case Studies:**

- Company 1: \_\_\_\_\_Company 2: \_\_\_\_\_

### Fun Facts:

- Fact 1: \_\_\_\_\_ Fact 2: \_\_\_\_

# **Notes for Parents/Guardians**

**Encourage** students to work independently to complete the assignment, but be available for guidance and discussion.

**Allow** students to express their views on how the circular economy can be applied in everyday life.

**Familiarize** yourself with the objectives of the assignment and be able to provide support if necessary.

# Circular Economy in Practice

The circular economy is not just a theoretical concept, but a practical approach to reducing waste and promoting sustainability. Many companies and organizations are already adopting circular economy practices, such as designing products for recyclability, reuse, and biodegradability. For example, some companies are using bioplastics, which are made from renewable resources such as corn starch or sugarcane, instead of traditional plastics.

### **Example: Bioplastics**

Bioplastics are a type of plastic that is made from renewable resources, such as corn starch or sugarcane. They are biodegradable and can be composted at the end of their life cycle, reducing waste and the environmental impacts associated with traditional plastics.

### Case Study: Patagonia

Patagonia, a outdoor apparel company, has been a leader in adopting circular economy practices. They design their products to be recyclable, reusable, and biodegradable. For example, their fleece jackets are made from recycled plastic bottles, and their clothing can be recycled at the end of its life cycle through their "Worn Wear" program.

# **Benefits of Circular Economy**

The circular economy has numerous benefits, including reducing waste, conserving natural resources, and mitigating climate change. By designing products and systems that are restorative and regenerative, we can reduce the environmental impacts associated with traditional linear economy practices. Additionally, the circular economy can also have economic benefits, such as creating new job opportunities and stimulating innovation.

### Infographic: Benefits of Circular Economy

Reducing waste, conserving natural resources, mitigating climate change, creating new job opportunities, stimulating innovation.

## **Example: Sharing Economy**

The sharing economy, which includes companies like Airbnb and Zipcar, is an example of a circular economy practice. By sharing resources, such as homes and cars, we can reduce the demand for new products and services, and reduce waste.

# Challenges and Limitations

While the circular economy has many benefits, there are also challenges and limitations to its adoption. One of the main challenges is changing consumer behavior and encouraging individuals to adopt circular economy practices. Additionally, there may be economic and social barriers to adopting circular economy practices, such as the high upfront costs of designing and implementing new systems.

## Case Study: H&M Garment Collecting Initiative

H&M, a clothing retailer, has implemented a garment collecting initiative, which encourages customers to bring in old clothes from any brand to be recycled or reused. This initiative has been successful in reducing waste and promoting sustainable fashion practices.

## **Example: Design for Disassembly**

Design for disassembly is a circular economy practice that involves designing products to be easily disassembled and recycled at the end of their life cycle. This approach can reduce waste and promote the reuse and recycling of materials.

# Policy and Regulation

Policy and regulation play a crucial role in promoting the adoption of circular economy practices. Governments and organizations can implement policies and regulations that encourage companies to adopt circular economy practices, such as extended producer responsibility and waste reduction targets.

### Infographic: Policy and Regulation

Extended producer responsibility, waste reduction targets, recycling targets, circular economy standards.

### Case Study: European Union Circular Economy Package

The European Union has implemented a circular economy package, which includes policies and regulations aimed at promoting the adoption of circular economy practices, such as waste reduction targets and recycling targets.

### **Education and Awareness**

Education and awareness are critical to promoting the adoption of circular economy practices. Educating consumers, businesses, and policymakers about the benefits and challenges of the circular economy can help to promote behavior change and encourage the adoption of circular economy practices.

#### **Example: Circular Economy Education**

Educating students about the circular economy can help to promote behavior change and encourage the adoption of circular economy practices. This can be done through curriculum development, workshops, and awareness campaigns.

### Case Study: Ellen MacArthur Foundation

The Ellen MacArthur Foundation is a charity that works to promote the adoption of circular economy practices through education and awareness. They provide educational resources and run awareness campaigns to promote the circular economy.

## Conclusion

In conclusion, the circular economy is a critical approach to reducing waste and promoting sustainability. By adopting circular economy practices, such as designing products for recyclability, reuse, and biodegradability, we can reduce the environmental impacts associated with traditional linear economy practices. Education and awareness are critical to promoting the adoption of circular economy practices, and policy and regulation can play a crucial role in encouraging companies to adopt circular economy practices.

## Summary

The circular economy is a critical approach to reducing waste and promoting sustainability. It involves designing products and systems that are restorative and regenerative, and can help to reduce the environmental impacts associated with traditional linear economy practices.

#### Recommendations

Based on the findings of this report, we recommend that companies and organizations adopt circular economy practices, such as designing products for recyclability, reuse, and biodegradability. We also recommend that governments and organizations implement policies and regulations that encourage the adoption of circular economy practices.

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