Introduction to Halogenoalkanes (10 minutes)
Read the introduction to halogenoalkanes and answer the following questions:
1. What is a halogenoalkane?
2. What are the different types of halogenoalkanes?
3. Why is it important to understand the classification of halogenoalkanes?
Classification of Halogenoalkanes (15 minutes)
Classify the following compounds as primary, secondary, or tertiary halogenoalkanes: 1. CH3Cl
2. CH3CH2Cl Page of 5
3. (CH3)3CBr

Nucleophilic Substitution R	eactions (20 minutes)
Predict the products of the follo 1. CH3Cl + OH- \rightarrow ?	wing nucleophilic substitution reactions:
2. CH3CH2CI + CN- → ?	
Synthesis Design (20 minut	
	ving compound using nucleophilic substitution reactions:
СН3СН2ОН	
[Space for synthesis desig	n]

Applications of Halogenoalkanes (15 minutes)	
Discuss the following applications of halogenoalkanes:	
1. Pharmaceuticals	
2. Agrochemicals	
3. Materials science	
Safety and Handling of Halogenoalkanes (10 minutes)	
What are the safety precautions that should be taken when handling halogenoalkanes?	
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Glossar	y (10 minutes)
Define the	e following terms:
1. Hal	logenoalkane
2. Nu	cleophile
3. Lea	aving group
4. SN	1 reaction
5. SN:	2 reaction

Conclusion (10	minutes)
Individual Refle	ection:
1. What did	you learn about halogenoalkanes and nucleophilic substitution reactions?
2. How will y	you apply this knowledge in the future?
3. What que	stions do you still have about halogenoalkanes and nucleophilic substitution
reactions	•