

Engaging in Reading • Find important ideas • Summarize • Make notes

2. Your Science teacher has planned a class trip to New Brunswick, where you will meet Jim Andersen and take a tour of his lab. Before leaving for your trip, you need to be as informed as possible. Using a graphic organizer of your choice, show your understanding of the selection by making notes on the main ideas and supporting details.

LEVEL ONE

Example One

Main Ideas	Supporting Details
caustic soda Aluminum water	-The caustic soda is dissolved in a tank of tap water -Aluminum pellets are dropped on the surface of the solution, causing a chemical reaction -The oxygen in the water attaches itself to the aluminum, forming dense matter called Alumina. The Alumina sinks to the bottom of the tank, and what remains is hydrogen.

Example Two

Main ideas	Supporting Details
1. Getting clean fuel from Garbage 2. We rely on fossil fuel to much 3. The Health of Our Planet. 4. Jim Andersons method uses water, aluminum, and caustic soda.	1. Old pop cans, and aluminum etc. are a source of aluminum. 2. Home, cars, economy 3. World-wide nearly one-billion people living in urban areas die

Knowledge and Understanding	Level 1	Level 2	Level 3	Level 4
<i>Demonstrating Understanding</i> Identifies important ideas and supporting details using both written text and visual/graphic features	Limited: largely inaccurate and/or incomplete • some main ideas • some relevant supporting details • key information omitted	Partial: somewhat accurate • most main ideas • some relevant supporting details • too much or too little information	Considerable: generally accurate and complete • most main ideas • most relevant supporting details • appropriate amount of information (may be synthesized)	Thorough: accurate and comprehensive • all main ideas • precise, well-chosen supporting details • effective amount of information (often synthesized)

Responses require students to understand explicit and implicit information in the text.

Communication	Level 1	Level 2	Level 3	Level 4
<i>Organizing Ideas</i> Uses a graphic organizer to categorize information	Limited organization and clarity; unstructured and hard to follow	Some organization and clarity; generally easy to follow	Considerable organization and clarity; structured and easy to follow	High degree of organization and clarity; highly effective

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LEVEL TWO

Example One

Main Ideas	Supporting Details
Emissions of Hydrogen gas	•Hydrogen gas produces no emissions when it is burned.
Fossil fuels	•Fossil fuels hurt our planet by producing green house gases that lock in the heat from the sun, this is global warming. •The Earths fossil fuels will be used up by 2035 according to scientists.
Hydrogen gas	•Hydrogen gas is a clean, renewable resource. Hydrogen is one of the planet's most abundant resources but is always found in combination with other elements. •We can separate the hydrogen from water by mixing aluminum and caustic soda in the water.

Example Two

Main ideas	Supporting Details
1. Fossil fuels are running low.	→ more cars are being used → more fossil fuels are being used in the homes
2. Solving the problem.	→ Jim produced an inexpensive methods to produce hydrogen gas → Hydrogen gas is created by adding water to aluminum and caustic soda

Ontario Comprehension Assessment—Grade 9 Exemplar: Super Technology, Super Potential Question 2, Level 2

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LEVEL THREE

Example One

Main Ideas	Details
<ul style="list-style-type: none"> •We rely on fossil fuels for everything in our lives 	<ul style="list-style-type: none"> •fossil fuels are needed in our homes, factories, schools and for cars •more cars on the streets means more harmful emissions •consumption of fossil fuels relates to the "poor health" of our planet. •we are running out of fossil fuels.
<ul style="list-style-type: none"> •Hydrogen gas is an alternative energy answer. 	<ul style="list-style-type: none"> •Scientists are making cars that burn hydrogen gas and leave nothing behind but water. •Bollard Industries (B.C.) is manufacturing hydrogen fuel cells. •Hydrogen is the most abundant element in the universe. We just need to find a way to extract it.
<ul style="list-style-type: none"> •Jim Andersen has invented a method of producing hydrogen gas. 	<ul style="list-style-type: none"> •Caustic soda is dissolved in water. •Aluminum pellets are dropped on the surface, causing a chemical reaction. •Oxygen in the water attaches itself to aluminum (creating alumina). •When the alumina sinks to the bottom of the tank, what is left is hydrogen. •this method is cheap and simple and uses recycled materials.

Ontario Comprehension Assessment—Grade 9 Exemplar: Super Technology, Super Potential Question 2, Level 3

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LEVEL FOUR

Example One

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Anderson Finds Answer to Fossil Fuel depletion problem	<ul style="list-style-type: none"> •Anderson put aluminum, water and caustic soda together to make hydrogen •Scientists today use electrolysis to separate water into hydrogen and oxygen but that takes lots of electricity which is expensive •Anderson's method is cheaper since he uses objects (pop cans, aluminum foil) that we throw away. •The caustic soda acts as a catalyst and can be reused.
We Need to Find Other Sources of Energy	<ul style="list-style-type: none"> •fossil fuels (gas, oil) are non-renewable and by 2035 sources will be depleted •More people have cars and need alternate sources of energy •The gas emissions are dangerous to our health

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