Cornell Guided Notes

Biotechnology for Health (Biomedical Innovations) | 2027-03-17

Name	Period	Date	Lesson
		2027-03-17	

Lesson focus

Exposure pathway

Key words and questions	Prepared details and student notes
Essential question **What is today's target?**	Trace how a specific toxin travels from its source to the human body. Big idea: Every environmental toxin follows a pathway from source to human target organ. **My notes, examples, and questions**
Key words **What vocabulary unlocks the lesson?**	- toxin - exposure - dose - pollutant - bioaccumulation - risk **My notes, examples, and questions**

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Cornell Notes - Continued

Key words and questions	Prepared details and student notes
Must-know ideas **What should I understand by the end?**	- Exposure requires a source, a transport medium, and a route of entry into the body. - Knowing the pathway lets you identify where intervention will break the exposure chain. - Target organ identification connects environmental data to clinical health outcomes. **My notes, examples, and questions**
Process notes **What happens during class?**	- 0-5 min: Warm-up: what happens inside the body when you breathe smog? - 5-15 min: Choose a pollutant; identify source and transport medium - 15-35 min: Map route of exposure and target organ system - 35-55 min: Draw and label the full pathway diagram - 55-70 min: Partner check: can they trace your diagram without your explanation? - 70-80 min: Exit ticket: name the route of exposure and target organ for your pollutant **My notes, examples, and questions**

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Steps and evidence **What do I do and turn in?**	- Pick one pollutant such as lead, particulate matter, or a pesticide. - Identify its source and the medium it travels through, such as air, water, or soil. - Map the route of exposure: inhalation, ingestion, or skin contact. - Note which organ system the toxin affects. - Draw a labeled pathway diagram from source to target organ. Evidence: Notebook check - Labeled exposure pathway diagram showing source, transport medium, route of entry, and target organ for one chosen pollutant. **My notes, examples, and questions**
Checks for understanding **How do I know I got it?**	- Your diagram traces a toxin from source through medium to the body. - You correctly labeled the route of exposure and target organ. **My notes, examples, and questions**

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Key words and questions	Prepared details and student notes
Lab or safety notes **What must I handle carefully?**	Supplies: - Computer with internet access - Printed or digital environmental dataset - Design notebook - Graph paper or spreadsheet - Calculator - Colored pencils for pathway diagram **My notes, examples, and questions**

Summary

Today's lesson focused on Exposure pathway. The main target was: Trace how a specific toxin travels from its source to the human body. The evidence of learning is Notebook check: Labeled exposure pathway diagram showing source, transport medium, route of entry, and target organ for one chosen pollutant.. In my own words, the most important idea from today is:

My summary

My final question or connection