

Science : Medical Interventions

Grade 12



#	Essential Knowledge/Skill	Alignment
1	INQUIRY: I can plan and carry out a controlled scientific experiment.	NGSS Science & Engineering Practices: Asking Questions & Defining Problems, Planning & Carrying Out Investigations
2	DATA: I can effectively collect, process, and communicate scientific data and observations.	NGSS Science & Engineering Practices: Using Math & Computational Thinking
3	DEFENSE: I can construct an explanation using scientific evidence.	NGSS Science & Engineering Practices: Constructing Explanation & Designing Solutions, Engaging in Argument for Evidence, Analyzing & Interpreting Data
4	INFECTION: I can use diagnostic processes to identify an unknown infection, justify appropriate treatment, explain unintended consequences, and suggest methods to prevent future infections.	
5	GENETICS: I can explain the screening process of genetics and discuss the future of genetic technology.	
6	CANCER: I can demonstrate how to determine the presence of cancerous cells, identify risk factors to prevent cancer, and design processes for new medications to treat and rehabilitate a cancer patient.	
7	TRANSPLANT: I can describe the processes of protein production, blood-sugar regulation, dialysis, and organ transplantation and discuss the issues encompassing each topic.	

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