Westside High School - Weekly Plan to Align Lessons (Week at a Glance) - 2025-26

Teacher: M.Prasanna Rao **Subject: Science** **Course: Biology** **Grade: 9 & 10** **Date(s): August 11th to August 15th**

Standards : SB5.e. Construct explanations that predict an organism's ability to survive within changing environmental limits (e.g., temperature, pH, drought, fire).

Assessment: ☐ **Quiz** ☐ **Unit Test** ☐ **Project** ☐ **Lab** ☐ **None**

	Pre-Teaching Learning Target Success Criteria 1 Success Criteria 2	**Activation of Learning** *(5 min)* • Do Now • Quick Write* • Think/Pair/Share • Polls • Notice/Wonder • Number Talks • Engaging Video • Open-Ended Question	**Focused Instruction** *(10 min)* ***I DO*** • Think Aloud • Visuals • Demonstration • Analogies* • Worked Examples	**Guided Instruction** *(10 min)* ***WE DO*** • Call/Response • Probing Questions • Graphic Organizer • Digital Whiteboard	**Collaborative Learning** *(10 min)* ***Y'ALL DO*** • Discussions* • Expert Groups • Labs • Stations • Think/Pair/Share • Create Visuals	**Independent Learning** *(10 min)* ***YOU DO*** • Written Response* • Digital Portfolio • Presentation • Canvas Assignment • Choice Board • Independent Project • Portfolio	**Closing** *(5 min)* • Group Discussion • Exit Ticket • 3-2-1 • Parking Lot • Journaling* • Nearpod
Mon Day 08/11/2025	I am learning about the evolution of viruses and how their adaptations affect survival in changing environments ✅ I can explain how mutations contribute to viral evolution.	**What environmental factor do you think would most impact viral survival?**	Demonstration on viral mutation and adaptation using real-world examples (e.g., influenza).	Probing questions on virus-host interactions under environmental stress.	Group discussion on how viruses adapt to new hosts.	Write a paragraph predicting how a specific virus might evolve under changing conditions.	Exit ticket: one-way environmental change affects viral evolution.
Tues day 08/12/2025	I am learning about virus's vs living organisms to understand differences in survival strategies. ✅ I can compare the structures and functions of viruses and living cells.	**Do the Question on Board**	Analysis of climate and disease maps changing environmental limits	Q&A on seasonal and geographic factors affecting viruses.	Groups propose public health strategies for an outbreak in changing environmental conditions.	Write a prediction for virus spread after a pH change in water systems	TOTD Compare virus and cell adaptability.

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Wednes day 08/13/2025	🎯 I am learning how viruses evolve resistance to environmental challenges. ✅ I can describe examples of viruses adapting to changing environmental limits.	Why might a virus survive better in one climate than another?	HIV's adaptation to antiviral drugs.	Probing questions on how environmental limits shape evolution.	Small group analysis of viral outbreak scenarios under different climate and pH conditions.	Write a hypothesis predicting virus spread in a warmer climate.	TOTD **One adaptation strategy viruses use to survive.**
Thurs day 8/14/2025	🎯: I am learning how environmental factors influence viral spread and host survival. ✅ I can explain relationships between environmental change and infection rates.	How might drought affect both viruses and bacteria differently	Side-by-side comparison of viruses and living cells (size, structure, reproduction).	Class discussion on how each respond to environmental stress (temperature shifts, drought).	Create a Venn diagram of viruses vs. living organisms in terms of adaptability.	Short answer predict how a virus and a bacterium would each respond to a drought.	TOTD Which organism type is more resilient in harsh environments?
Friday 08/15/2025	🎯 I am reviewing and applying my knowledge of viral evolution and survival in changing environments. ✅ I can construct explanations predicting viral survival under various environmental conditions.	warm-up question.	Review of lesson	**Test on viruses' evolution**	**Test on viruses' evolution**	**Test on viruses' evolution**	**Test on viruses' evolution**