

Name: Marcie Hall Period: 3 Date: 5/1/23



Note-Taking Guide (CER)

Activity Title: Aquatic Ecosystems- Developing

Activity Scoreboard					
when finished, circle highest score achieved					
Attempt #	1	2	3	4	5
Date					
Score					

Claim:
There are different aquatic systems with diverse organisms.

Evidence	Reasoning/Justification
Aquatic ecosystems have abiotic - temp, light, salinity, depth	Different organisms can tolerate different factors
Some organisms prefer fresh water vs. saltwater. Bull sharks + manatees tolerate both	Bull sharks and manatees are very different, but tolerate same conditions
Depth reduces light and increases pressure. Organisms deal with this differently.	Many types of adaptations exist to survive in these conditions
The geography of an aquatic environment can determine the life forms present.	Continental shelf gets lots of light, so there's many living things. Not so in the abyss.
Photosynthesis takes place in the neritic zone.	It is the most productive area of the ocean. Plankton are base of food chain.
Metabolism is affected by temp. Many species are cold-blooded.	Organisms can migrate or must have adaptations to survive.

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value of the phase difference ϕ depends on the values of R , C and L since the elements are in series the same current flows through each element at all points in time the relative phase between the current and the emf

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voiceover we now begin a whole new area of circuit analysis called sinusoidal steady state analysis you can also call it ac analysis ac stands for alternating current it means it is a voltage or a current that where the signal actually changes sign it is positive sometimes it is negative sometimes

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about transcript the ratio of a sinusoidal voltage to a sinusoidal current is called impedance this is a generalization of ohm's law for resistors we derive the impedance of a resistor inductor and capacitor the inductor and capacitor impedance includes a term for frequency so the impedance of these components depends on frequency

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ω represents the frequency of a sine wave when we write it this way $\sin \omega t$ if $\omega = 1$ the sin completes one cycle in 2π seconds if $\omega = 2\pi$ the sin completes one cycle sooner every 1 second for $f = 1$ if $\omega = 2\pi f$ the sin completes one cycle even faster every $1/f$ seconds or equivalently sin completes f cycles in 1 second

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