

**The Effect of**  
**Climate Change**  
**on**  
**Coral Growth**

**School Name: Desert Academy**

**Team Number: DesertAcad-4**

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**Sponsoring Teacher: Mario Ruiz**

**Project Mentor: Peter Lamborn**

**Summary:**

We are trying to make temperature affects oft coral. So we would have the coral particles float from the left side showing that the coral is being carried by the ocean's current. Then the coral would attach to the rock which will be on the bottom. Then the coral particles will attach to the rock and create a stack simulating coral growth. Then we would have a slider that has temperature if we raise the temperature the coral particles will float faster and grow quicker. Until a certain point where it gets too hot and the coral dies off. Then is we turn the slider down the coral will grow slower until a certain point and it will get to cold and the coral would die off.

**Plan of Action/Methods:**

Using netlogo, we will design a model of coral growth in different climates.

**Problem:**

Impacts of temperature, pH and chemistry change of ocean with coral growth.

**Results of our study:**

From our study we have learned that if it is hot the coral will grow faster but if it gets too hot the coral will die off. If it gets colder the coral will grow slower but if it gets too cold the coral will die off.

**Conclusion:**

We have concluded that we still need to work on the slider that will control the temperature.

**Achievements on the product:**

We have been able to draw the coral the the rock. But some of the coral sticks to the top and we are trying to figure out ways to stop that.

**Area of Science:**

Biochemistry is the area of science.

**Why this is important:**

This is important because coral is a big art of animal homes and coral are animals themselves.

We were hoping to show that coral growth might be linked up by the sun and pollution in water. We studied the impacts of temperature and chemistry in coral growth.

**Acknowledgements:**

I think my team work really hard and did the best we could. We all did it together and I thought we did a good job. I also Acknowledge my teacher Mr. Ruiz also two people who helped a lot Mr. Stevan Guerin and Mr. J.P Gonzales.

## Sources

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