

Name: \_\_\_\_\_

My Extremophile: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Live: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Size: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Food: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Breathe: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Protection: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Movement: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Answer the following questions to show your knowledge as a scientist:

1. List your best 3 adaptations in bullet form:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

2. Explain how your 3 adaptations help your organism to survive the extreme environment:

- a. \_\_\_\_\_  
\_\_\_\_\_
- b. \_\_\_\_\_  
\_\_\_\_\_
- c. \_\_\_\_\_  
\_\_\_\_\_

3. If you could add one piece of technology to help your organism survive in an extreme environment, what would it be and how would it work:

- a. Technological adaptation: \_\_\_\_\_
- b. How would it work?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. If you could explore any extreme environment, which one would it be? What would you need to live here? Give reasons for your answer.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. What did you learn from our extreme environment unit? List the concepts in bullet form:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_

Project Marks will be as outlined in the chart below

Drawing – Must be neat and tidy, must take your time doing it. Marks taken off if it shows carelessness.

Adaptations – Must include 5 types of adaptations.

Creativity – Is your organism a unique creation? Are you presenting it in an interesting way?

Note: You MUST state which extreme environment your organism is adapted to.  
You MUST provide a summary description of your extremophile (lives, size, food, how it breathes, moves, and protects itself).

	Needs work	Getting there	Good	Excellent
Content	Less than 5 adaptations presented. Not all 3 types of adaptations are presented. Adaptation for one of the following Feeding, avoiding predation, avoiding human impacts	Less than 5 adaptations are presented. Not all 3 types of adaptations are represented. Adaptations somewhat meet the requirements of the extreme environment. Adaptations for two of the following: Feeding, avoiding predation, avoiding human impacts	5 types of adaptations are included. Adaptations meet the requirements of the extreme environment. Adaptations for feeding, avoiding predations, and avoiding negative impacts of human activity all present	Include 5 types of adaptations. Adaptations are all thoughtful and meet the requirements to survive in an extreme environment (in order to live, feed, breathe, move and protect themselves from predators and negative impacts of human activity).
Creativity	The organism created is an already existing animal/plant. The presentation of the project is confusing and prevents understanding	The organism created resembles an already existing animal/plant The presentation of the project does not attempt to help audience understand it better	The organism created is unique The way project is presented somewhat helps audience understand the project better	The organism created is unique The way the project is presented is unique and helps audience understand the project better
Presentation	Project is messy and not clear. Presentation is confusing and does not communicate the information well.	The presentation of the project is somewhat neat. It is somewhat confusing but communicates the information.	The presentation of the project is clear and neat.	Presentation of the project is clear, coherent, neat, and flows. It has been made with great care.