

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

Date: \_\_\_\_\_



# Extreme Environments Worksheet

Move around the room to each Environment Station (or follow along with the slideshow).

At each station, look carefully at the picture and read about what it's like there.

Then, check or mark your answers to each question for every environment.

## Frozen Lake

1. Is the temperature: ☐ Hot ☐ Cold
2. Is the water: ☐ Frozen solid ☐ Partly liquid under the ice
3. Can sunlight reach under the ice? ☐ Yes ☐ No
4. What might make it hard for life to survive here?

## Hot Springs

1. Is the temperature: ☐ Warm ☐ Very hot
2. Is the water: ☐ Fresh ☐ Acidic
3. Does this place have: ☐ Low acidity ☐ Medium to high acidity
4. What might make it hard for life to survive here?

## Deep Ocean

1. Is it: ☐ Bright ☐ Completely dark
2. Is the pressure: ☐ Low ☐ Very high
3. Is the water: ☐ Fresh ☐ Salty
4. What might make it hard for life to survive here?

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## Volcanic Vent

1. Does this place have: ☐ Cool ground ☐ Hot lava and gases
2. Is the pressure: ☐ Low ☐ Medium
3. What happens here? ☐ Heat and gas escape ☐ Ice and snow build up
4. What might make it hard for life to survive here?

## Hot Sea Vent

1. Is this vent found: ☐ On land ☐ Under the ocean
2. Is the pressure: ☐ Low ☐ Extremely high
3. Does the water look: ☐ Clear ☐ Smoky and full of minerals
4. What might make it hard for life to survive here?

## Martian Surface

1. Is the temperature: ☐ Warm ☐ Very cold (around  $-85^{\circ}\text{F}$ )
2. Is there water: ☐ None ☐ Some salty liquid water
3. Does Mars have: ☐ Thick atmosphere ☐ Thin atmosphere with high radiation
4. What might make it hard for life to survive here?

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## Desert

1. Is this place: ☐ Very dry ☐ Often rainy
2. Is it usually: ☐ Cold ☐ Very hot (can reach 150°F!)
3. Do plants store: ☐ Light ☐ Water to survive
4. What might make it hard for life to survive here?

## Acid River

1. Is the water: ☐ Normal ☐ Very acidic
2. Are these rivers often near: ☐ Grasslands ☐ Volcanoes or mines
3. Can most animals survive here? ☐ Yes ☐ No
4. What might make it hard for life to survive here?

## Saline Lakes

1. Is the water: ☐ Fresh ☐ Very salty
2. Can people float easily in it? ☐ Yes ☐ No
3. Does the water sometimes look: ☐ Clear ☐ Pink from bacteria
4. What might make it hard for life to survive here?

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# Extreme Environments Worksheet

## Ocean World

1. Do these worlds have: ☐ Little water ☐ Lots of liquid water
2. Are they found: ☐ On Earth ☐ On planets and moons like Europa and Enceladus
3. Are scientists interested in them for finding life? ☐ Yes ☐ No
4. What might make it hard for life to survive here?

## Outer Space

1. Is there air or wind? ☐ Yes ☐ No
2. Is the temperature: ☐ Warm ☐ Extremely cold
3. Is the sky in space: ☐ Blue ☐ Always black
4. What might make it hard for life to survive here?