

Do Now ✓ OCT 26 2010

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Tuesday 10/26/10

The requirements for life are water, air, nutrients.

Extremophiles: Bacteria or bacteria-like organisms that can survive under extreme conditions.

| | Condition | Location | Typical for Humans. |
|-------------------|----------------------------|---------------------------|-----------------------------------|
| Hottest | 113°C | Vulcano Isle, Italy | 15°C |
| Coldest | -15°C | Antarctica | |
| Most Acidic | PH 0.0 | Caves | PH 5-8 |
| Most Basic | PH 11 | Evaporated lakes | |
| Highest Radiation | 15 millions rad | | 1000 rads will kill a person. |
| Highest Pressure | 18,000 lbs/in ² | Marianas Trench | 15 lbs/in ² |
| Saltiest | 30% salt | Great salt lake, Dead sea | Salt water 3% Human blood 0.9% |
| Longest in Space | 6 years | | N/A. |

Caves

- No light. - see through skin - echo location -
- Acidic water - lime stone.

Learning life

Studying Extremophiles can help us look for life (alien life) because it give us an understanding of all the places life can be maintained.