Adaptations Design with Robots



WHAT ARE YOUR BASIC NEEDS?

- 1. **FOOD**
- 2. WATER
- 3. SHELTER
- 4. OXYGEN

Animals have specialized body parts (ADAPTATIONS!) that help them get their basic needs







http://www.fws.gov/pacific/highlights_archive/Feature.cfm?id=13682

http://www.kpl.gov/events/animal-adaptations.aspx/



HEREDITY



Adaptations are passed down from parents to offspring

Adaptations come in many forms

Today we will learn about one way adaptations help:

LOCOMOTION



LOCOMOTION







Four Legged Walker Bot



Source: www.nxtzoo.com

SnowBot



MATERIALS































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What The Activity Demonstrates

- Animals have specialized body parts that help them survive in the wild
- Locomotion
- Measuring in centimeters
- Biomimicry
- Pressure (Weight / Area)
- Engineering Desing Process

Questions?