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PHYSICS FOR BIOLOGISTS

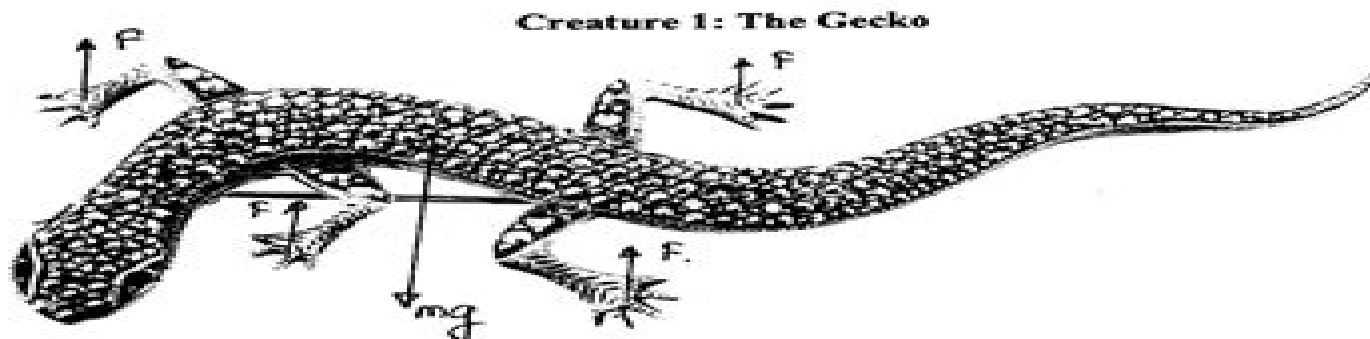
Lab 4: Gravity defying creatures

Overview

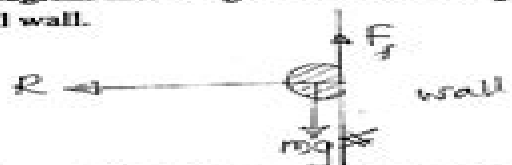
- Why is it that some creatures seem to defy gravity?
- How do all these components work together to achieve a stable and high-performing rocket?

Theory

- Newton's second law: $F = ma$
- Friction
- Freebody diagrams



1. Draw a freebody diagram including all forces on the gecko above standing still on the surface of a vertical wall.



mg - weight of the gecko
 R - Normal force
 F_f - Friction force.

2. Do some investigating and find the approximate mass of a gecko in SI units. If you cannot find the mass in SI units then convert it.

$$\begin{aligned} \text{Mass of a gecko} &= 70 \text{ g} \\ &= 0.070 \text{ kg} \end{aligned}$$

Physics For Biologists

SJ Ball



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