

# FRANKENWEENIE

## BALANCED AND UNBALANCED FORCES

When science is used for the wrong reasons, things go a little crazy in *Frankenweenie*. Victor and his friends learn that there is a need to keep things balanced as unbalanced forces can cause havoc!

- **What do we mean by balanced and unbalanced forces?**

Basically, when the forces of an object are **balanced**, it means that it is not moving, or not getting any quicker or slower. Its **weight** (created by gravity) is equal to the **force** that pushes up in the ground (the ground reaction force) and the object stays balanced.

If the forces on an object are unbalanced, it will speed up, slow down or change direction. Or fall over!

Describe the science of balanced and unbalanced forces behind Elsa's dog, Persephone, when she is lying still and then when she touches noses with Sparky. She is literally knocked sideways after he inadvertently gives her an electric shock!



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