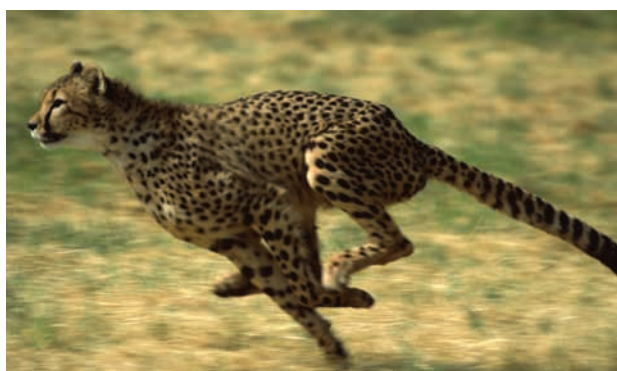


Forces and Motion

Contents

<i>Preview the Book</i>	2
What Are Forces?	3
Pushes and Pulls	4
Friction	6
Gravity	7
Magnetic Force	9
<i>How to Read Charts</i>	10
How Do We Describe Motion?	11
Position and Motion	12
Speed	14
Velocity	16
Acceleration	17
<i>Cause and Effect</i>	18
What Are Newton's Laws of Motion?	19
The Science of Motion	20
Newton's First Law of Motion	21
Newton's Second Law of Motion	22
Newton's Third Law of Motion	23
Glossary	24



Glossary

acceleration (ak-sel-uh-RAY-shuhn) any change in an object's velocity **(17)**

distance (DIS-tens) how far it is from one place to another **(13)**

force (FORS) a push or pull that acts on an object **(4)**

friction (FRIK-shuhn) a force that happens between objects that are touching and acts against, or opposes, their motion **(6)**

gravity (GRAV-uh-tee) the force that acts between objects that have mass, causing them to pull toward, or attract, each other **(7)**

inertia (in-UR-shuh) a property that tells how objects tend to keep moving or stay still until acted on by a net force **(21)**

magnetic force (mag-NET-tik FORS) the force of a magnet **(9)**

motion (MOH-shuhn) a change in the position of an object **(12)**

position (puh-ZISH-uhn) the location of an object **(12)**

speed (SPEED) the measure of an object's change in position over time **(14)**

velocity (vuh-LAHS-uh-tee) the measure of an object's speed in a certain direction **(16)**

weight (WAYT) the strength of the force of gravity on an object **(8)**

