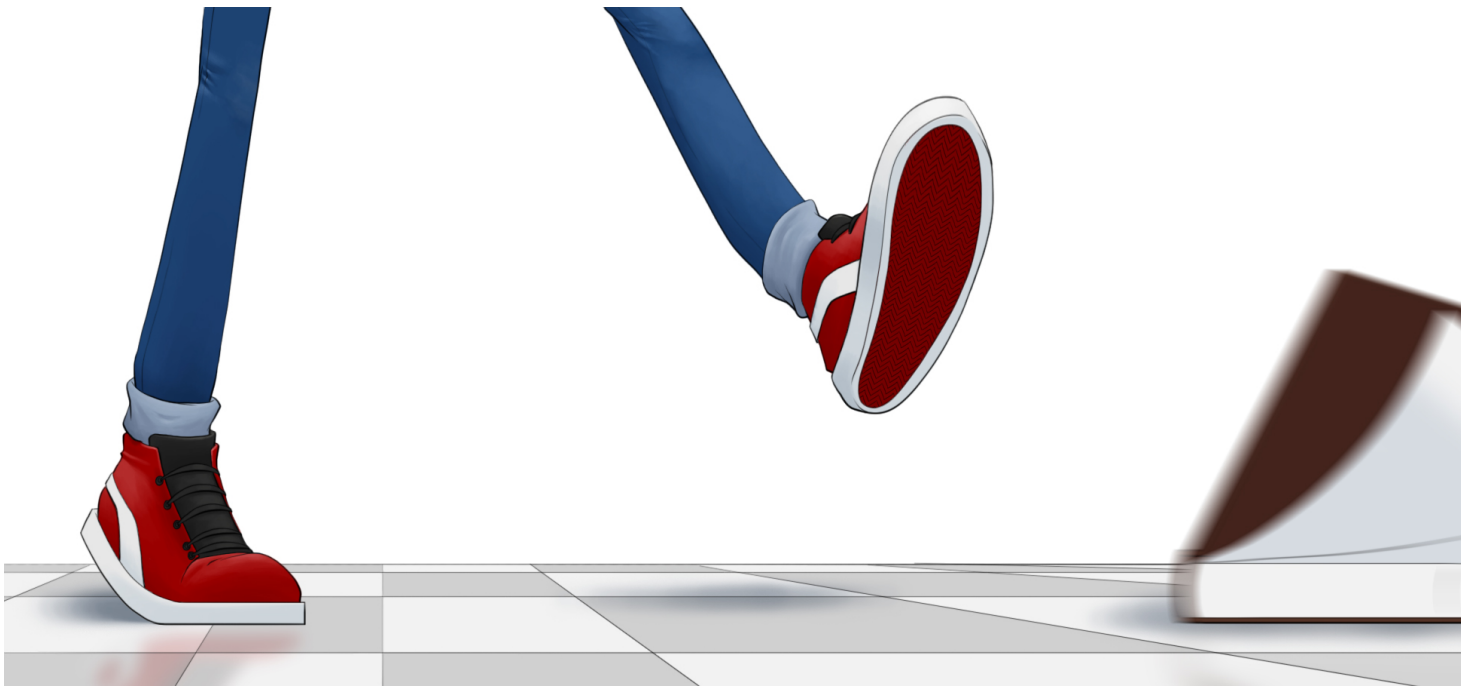


# Unit 2 Introduction



## Forces

You have just learned about the motion of objects. What is it that causes motion to change? This question has been studied throughout the centuries by people now considered famous. Galileo and Isaac Newton both spent considerable effort studying the interactions between objects. Objects in the universe interact through forces. Forces can be found all around us. In this unit, you will be learning about forces in your everyday experience and some of the effects of such forces.



## Video 2.1

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# Learning Outcomes

1. Explain the motion of objects using Newton's first law.
2. Identify forces acting on objects.
3. Determine horizontal and vertical components of force vectors.
4. Solve balanced-force problems.
5. Explain the motion of objects using Newton's second law and solve unbalanced-force problems.
6. Explain the motion of objects using Newton's third law.

