

Chapter 1

Momentum

e-Learning

Objectives

Fun – and physics – on screen

If you play computer games (Figure 1.1) you will be familiar with the way in which characters move about the screen. Cars accelerate and decelerate rapidly as they chase each other around. A character flying through the air will follow a curved path under the influence of gravity. Human figures may be given bulging muscles so that they can leap and punch with enormous force, but their motion usually obeys the laws of physics.

The programmers who produce these games know Newton's laws of motion, and these laws are



Figure 1.1 Playing a computer game – the software relies on the laws of physics.

built into the software. However, there is often some subtle cheating going on. For example, the strength of gravity may be reduced so that characters can jump higher and spend longer moving through the air. Objects may be made springier than is possible in reality, so that landings are softer and collisions are bouncier. The trick is that users of the games should not notice these effects.

It would look wrong if a character were to jump straight up in the air and then suddenly move sideways or stop for a long time in mid-air (as sometimes happens in cartoons). Our experience of the world gives us an intuitive grasp of how things move and it is unlikely that we would accept games where objects moved in impossible ways.

The same is true when we watch or play sports such as football or tennis. We learn to predict where the ball will go when it has been kicked or hit. We may be surprised when a skilful player makes the ball swerve through the air – perhaps they are able to use the force that arises when a spinning ball interacts with the air – but we know that the laws of physics are still being obeyed.

In this chapter, we will explore how the idea of momentum can allow us to predict how objects move after colliding (interacting) with each other. In [Chapter 2](#), we will see how Newton's laws of motion can be expressed in terms of momentum.

The idea of momentum

Snooker players can perform some amazing moves on the table, without necessarily knowing Newton's laws of motion – see [Figure 1.2](#). However, the laws of physics can help us to understand what happens when two snooker balls collide or when one bounces off the side cushion of the table.

Here are some examples of situations involving collisions:

- two cars collide head-on
- a fast-moving car runs in to the back of a slower car in front
- a rugby player performs a tackle on the legs of an opponent

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