

## **Career Exploration**

A2. identify and describe careers related to the fields of science under study,

## **Kinematics**

B1. analyse technologies that apply concepts related to kinematics, and assess the technologies' social and environmental impact;

B2. investigate, in qualitative and quantitative terms, uniform and non-uniform linear motion, and solve related problems;

B3. demonstrate an understanding of uniform and non-uniform linear motion, in one and two dimensions.

## **Forces**

c2. investigate, in qualitative and quantitative terms, net force, acceleration, and mass, and solve related problems;

c3. demonstrate an understanding of the relationship between changes in velocity and unbalanced forces in one dimension.

## **Energy and Society**

D1. analyse technologies that apply principles of and concepts related to energy transformations, and assess the technologies' social and environmental impact;

D2. investigate energy transformations and the law of conservation of energy, and solve related problems;

D3. demonstrate an understanding of work, efficiency, power, gravitational potential energy, kinetic energy, nuclear energy, and thermal energy and its transfer (heat).