

## Delivering mail

1. Discuss each of the following questions in your group, making sure that each of you write down your answers in your learning journals.
  - a. A humanoid robot is a robot that looks and moves like a human. What types of obstacles might a humanoid robot that delivers mail to people's letterboxes encounter? List as many as you can think of.



- b. Pick three of these obstacles. For each of them, describe how the humanoid mail delivery robot could detect and avoid them. What sensors would it need? What actions would it need to perform?
  - c. Let's imagine that the humanoid delivery robot was now going to be used to deliver mail to letterboxes 50 metres underwater. What design features would you add to this robot to help it deliver mail underwater that would not be needed on land? Examples of design features include size, shape and sensors. For each design feature, explain why it would be beneficial for underwater delivery.

