

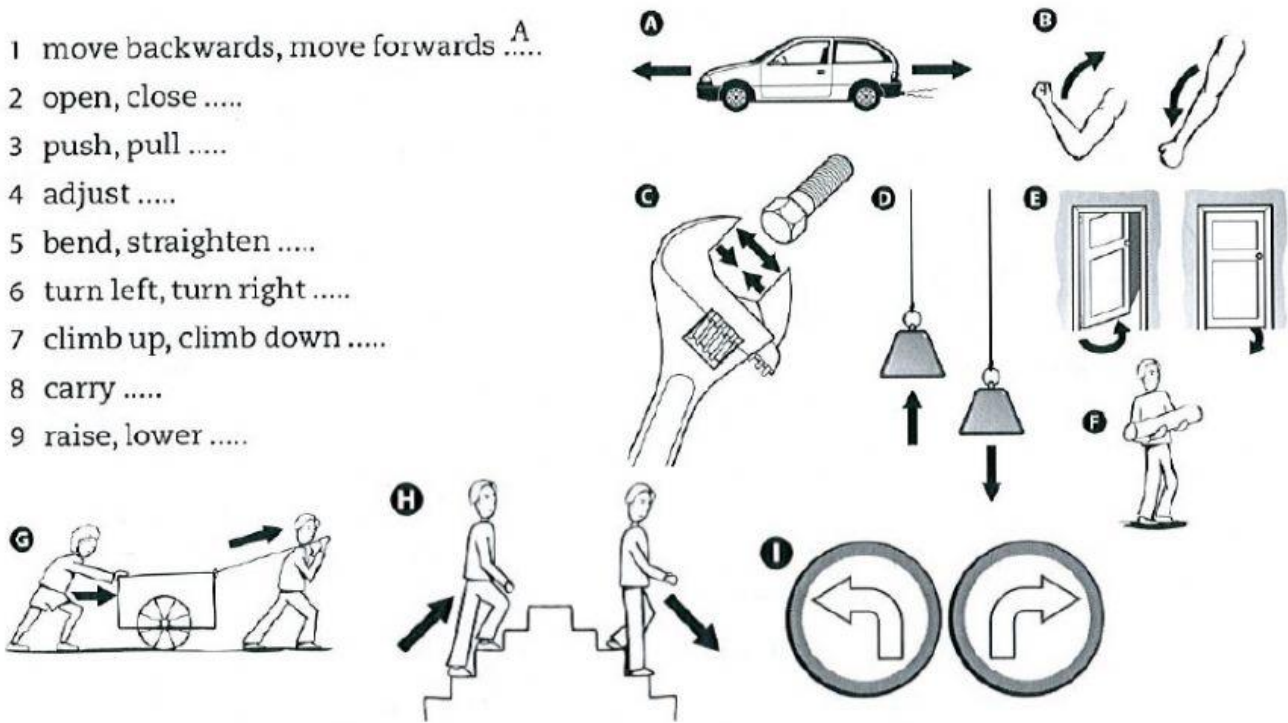
ASSIGNMENT

Lesson 6



Activity 1: Match the pictures with the verbs.

- 1 move backwards, move forwards ^A.....
- 2 open, close
- 3 push, pull
- 4 adjust
- 5 bend, straighten
- 6 turn left, turn right
- 7 climb up, climb down
- 8 carry
- 9 raise, lower



Activity 2: Complete the sentences with the verbs in the box.

straighten	raise	push	move
climb	carry	turn	bend
			adjust

- 1 Please ^{close} the door and lock it when you go home.
- 2 A lot of robots can't up or down stairs.
- 3 Please help me the car into the garage.
- 4 Please your hand if you want to ask a question.
- 5 Can it backwards and forwards, or only forwards?
- 6 The maximum load this robot can is 25 kg.
- 7 ASIMO can the size of his steps to make them big or small.
- 8 When you want to lift something heavy, your legs.
- 9 Do I left or right when I come out of the elevator?
- 10 There are so many bends in this road – we need to it.

Activity 3: Read about AIBO, the robot dog. Mark the sentences true or false.

AIBO (Artificial Intelligence roBOt) is a robot dog, developed by Sony. He is 27.4 cm long, 26.6 cm high, and weighs 1.5 kilos. You can control him with a computer, a remote control, or with voice instructions. AIBO is not just a toy. Sony developed and tested him as an electronic friend for old people.

Price: approximately \$1,300.

Here are some things AIBO can do:

- walk and run backwards and forwards
- stand on his back legs and raise and lower his front legs
- see and remember things
- understand the name you give him
- dance
- understand 75 different voice instructions (*Sit! Come! No!, etc.*)
- take photographs
- make robotic dog sounds
- learn new actions.

Movable parts

- Mouth: 1 degree of freedom
- Head: 3 degrees of freedom
- Legs: 3 degrees of freedom x 4 legs (removable)
- Ears: 1 degree of freedom x 2 ears
- Tail: 2 degrees of freedom
- Total: 20 degrees of freedom

He needs a 9V battery and can operate for approximately 1.5 hours.

- 1 AIBO is a toy for children. false
- 2 He can remember his name.
- 3 He can bend his legs.
- 4 He can stand on his front legs.
- 5 He can raise and lower his front legs.
- 6 He can turn on a light.
- 7 He can speak 75 wrds of English.
- 8 He can learn to do new things.
- 9 He can move his ears and tail.
- 10 He can bend his back.

Activity 4: Look at ASIMO and complete the sentences with the verb have.

Affirmative	<i>It <u>has</u> two arms.</i>
Negative	<i>I <u>doesn't have</u> one leg.</i>



- 1 ASIMO a big head.
- 2 He wings.
- 3 He two arms and two hands.
- 4 ASIMO wheels.
- 5 It teeth.
- 6 He a nose.
- 7 This robot two legs.
- 8 It a tail.
- 9 He feet.
- 10 ASIMO hair.

Activity 5: Write the names of the parts in these pictures.



a mouth.....



b



c



d



e



f



g



h



i



j



k



l

- jaws
- hand
- leg
- teeth
- back
- foot
- nose
- neck
- face
- arm
- head

Activity 6: Complete the sentences with the items in the list.



bottle



car



CD drive



chair



clock



cog



crane



plane

- 1 It has a neck and a mouth, but it can't drink. bottle.....
- 2 It has arms, legs, and a back, but it can't move.
- 3 It has two or three hands. It doesn't have a mouth, but it can tell you the time.
- 4 It's round. It has a lot of teeth, but it can't eat.
- 5 It has a nose. It can't smell, but it can fly.
- 6 It has an arm, but it doesn't have a hand. It can lift things.
- 7 It can read and write, but it doesn't have eyes or hands.
- 8 It has a body. It doesn't have arms or legs, but it can carry you somewhere.

Activity 7: Complete the sentences with the words in the box.

LINE TRACKER can follow black lines on white paper.



wide high long heavy

Line tracker is 97 mm _____.
It is 157 mm _____.
Line tracker is 143 mm _____.
It is 250 g _____ without batteries.
It is \$ _____.

SPECIFICATIONS

Height	97 mm
Length	157 mm
Width	143 mm
Weight without batteries	250 g
Price	\$49.95

Activity 8: Write sentences about Hyper Peppy. (See activity 7 as an example)

HYPER PEPPY can change direction when it hears a loud noise or things are in its way.



Hyper Peppy is _____

SPECIFICATIONS

Height	90 mm
Length	115 mm
Width	130 mm
Weight without batteries	160 g
Price	£23.79