

## Exercise 1

## Vocabulary

Complete the sentences with the correct verb from the box.

place	twist	wedge	wrap
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- \_\_\_\_\_ two matches into the gap on each side of the matchbox.
- \_\_\_\_\_ the elastic band around the ends of the matches.
- \_\_\_\_\_ the card over and over until it is ready to flip back on its own.
- \_\_\_\_\_ the boat on the surface of the water.

## Exercise 2

## Reading &amp; Grammar

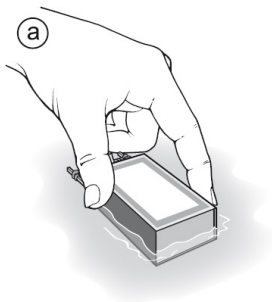
Match the start of the sentences in column A to the end of the sentence in column B.

A	B
1. We need to wind up the elastic band ...	a. ... the boat will go faster.
2. When we let go of the matchbox paddle boat, ...	b. ... the matchbox paddle boat doesn't move.
3. I think that if we have a bigger paddle, ...	c. ... to create energy.
4. We can use a similar motor ...	d. ... the elastic band unwinds and the energy is released.
5. If you don't wind up the elastic band ...	e. ... to power a matchbox car.

## Exercise 3

## Speaking

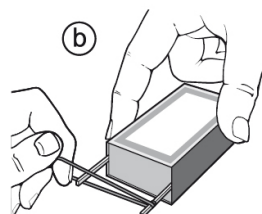
Work in pairs and put the diagrams/photos in the correct order.




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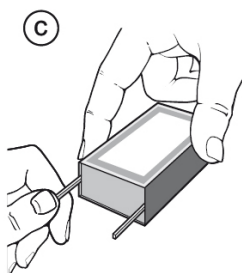
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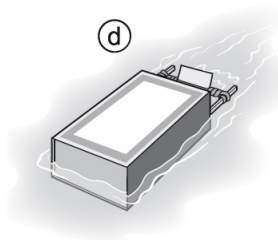
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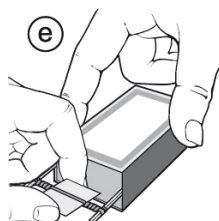
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## Exercise 4

## Writing

Work with your partner and write a sentence for each diagram/photo from exercise 3.

**Matchbox paddle boat**  
Adrian Tennant**Learning objectives**

Pupils learn about how energy can be stored and then transferred using a simple elastic band motor.

**Content summary**

Pupils follow instructions to make a simple matchbox paddle boat.

**Skills**

Reading; speaking; writing

**Grammar**

Present simple

First conditional

Comparatives: *bigger, faster*

**Vocabulary**

Words and simple phrases connected to the experiment: *wedge, wrap, place, twist, elastic band, motor, wind up, unwind, let go, gap, flip back*

**Time needed**

30–45 minutes

**Age group**

7–11

**Materials needed**

- For each pair of pupils: a matchbox, two matches, an elastic band (+ a few spare ones in case some snap), a piece of plastic-coated card.
- One or two large bowls of water for the class.

**Practicalities**

You will need to monitor and help the pupils while they construct their matchbox paddle boats. When they are placing their boats in the water, tell them to do it gently so they don't splash water everywhere.

**Procedure**

1. Tell pupils they are going to make a paddle boat using a matchbox, matches and an elastic band.
2. Introduce/pre-teach the following vocabulary that pupils will need to understand: *wedge, wrap, place, twist, elastic band, motor, wind up, unwind, let go, gap, flip back*
3. Hand out the experiment sheet and have pupils read out the instructions in class.
4. Get the pupils to follow the instructions and work in pairs to make their own matchbox paddle boat.
5. Hand out the worksheet and ask the pupils to complete exercises 1 and 2. Encourage them to work with a partner or in small groups.
6. Check the answers as a class.
7. Next, put the pupils in pairs and ask them to look at exercise 3. Encourage the pupils to speak to their partner and discuss the order they think the pictures should be in.
8. Monitor and help where necessary.
9. Finally, ask the pupils to work with their partner and write a sentence describing what is happening in each picture.

**Note:** If you think this might be too difficult you could either write some prompts on the board or get them to match the sentences from exercise 1 to the pictures and then write one for picture d).

**Matchbox paddle boat**  
Adrian Tennant**Exercise 1**

1. wedge
2. wrap
3. twist
4. place

**Exercise 2**

1. c
2. d
3. a
4. e
5. b

**Exercise 3**

The correct order is c, b, e, a, d.

**Exercise 4**

Allow variations on the sentences from exercise 1. As long as the sentences explain what is happening then that is all that is really important.