



Climate Action Week mystery activity pack

Find the mystery climate activist

You are working for a local newspaper and have heard reports that someone in your area has been doing lots to help your local community transition to net zero. You want to write an article about this climate activist, but no one you have spoken to so far knows who they are. You have created a list of people it could be based on what you know so far. You decide to visit some of the places where they have been helping to try and solve the mystery of who they are.

The table on page 2 has a list of all the possible people who could be the climate activist. Solve the puzzles on pages 3 - 7 to work out who it is.

The climate activist is _____

Name	Favourite food	Best energy saving method	Way to travel	Reusable item	Native tree
Daisy Dawson	Soup	Heating off unused rooms	Walk	Water bottle	Silver birch
Leo Lopez	Porridge	Lights off unused rooms	Scoot	Coffee cup	Alder
Jemima Jones	Porridge	Heating off unused rooms	Scoot	Coffee cup	Rowan
Wilbur Williams	Shortbread	Heating down 2°C	Cycle	Coffee cup	Hawthorn
Elsie Evans	Porridge	Lights off unused rooms	Walk	Coffee cup	Silver birch
Mateo MacDonald	Soup	Heating off unused rooms	Scoot	Water bottle	Hawthorn
Maryam Mackay	Shortbread	Heating down 2°C	Cycle	Water bottle	Silver birch
Hannah Hernandez	Soup	Lights off unused rooms	Walk	Water bottle	Alder
Kayden Kumar	Soup	Heating down 2°C	Cycle	Coffee cup	Rowan
Violet Vega	Soup	Heating off unused rooms	Walk	Coffee cup	Alder
Aisha Allan	Porridge	Heating off unused rooms	Cycle	Coffee cup	Alder
Riley Rivera	Shortbread	Heating down 2°C	Cycle	Water bottle	Hawthorn
Muhammad Marwan	Shortbread	Heating off unused rooms	Cycle	Water bottle	Silver birch
Lyla Li	Porridge	Lights off unused rooms	Cycle	Coffee cup	Hawthorn
Kian King	Soup	Lights off unused rooms	Walk	Water bottle	Alder
Florence Fraser	Shortbread	Lights off unused rooms	Scoot	Coffee cup	Rowan
Dylan Davis	Soup	Heating down 2°C	Cycle	Water bottle	Rowan
Summer Smith	Porridge	Heating down 2°C	Scoot	Coffee cup	Alder
Reuben Roy	Porridge	Lights off unused rooms	Scoot	Coffee cup	Hawthorn
Abdul Amen	Shortbread	Heating off unused rooms	Walk	Water bottle	Silver birch
Penelope Patel	Soup	Lights off unused rooms	Walk	Water bottle	Rowan
Aaliyah Anderson	Shortbread	Heating down 2°C	Scoot	Coffee cup	Rowan
Rory Rana	Shortbread	Heating off unused rooms	Walk	Water bottle	Hawthorn
Ollie Ortega	Porridge	Heating down 2°C	Scoot	Water bottle	Hawthorn
Bella Brown	Soup	Heating off unused rooms	Cycle	Coffee cup	Alder

Mystery 1: Profit or Loss?

You start at the local café. The mystery climate activist has been helping the owner to reduce their food waste. This will reduce methane emissions from food going to landfill. If you can help the owner of the café work out how much money they made this morning, they will tell you what the activist said was their favourite food.

Sold

5 bowls of soup £3.20 each

4 sandwiches at £2.75 each

6 cups of tea at £1.49 each

8 cups of coffee at £2.05 each

Supplies used

Fruit and vegetables - £35 (minus 15% discount for orders over £30)

Bread – 6 loaves at 89p each

Tea and coffee – £18 plus VAT at 20%

Profit or loss for morning

£10-20 – Favourite food = Porridge

£0-10 – Favourite food = Soup

£-10-0 – Favourite food = Shortbread

Answer _____

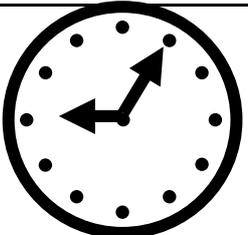
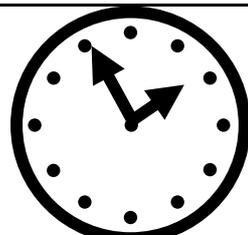
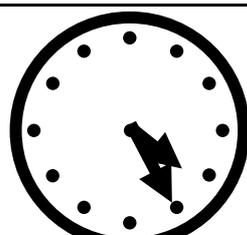
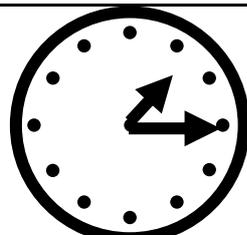
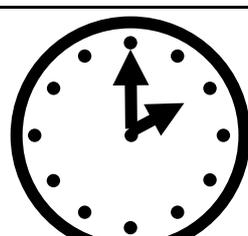
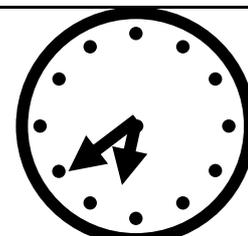
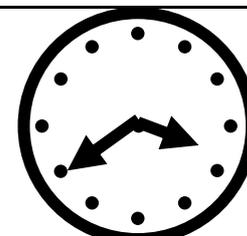
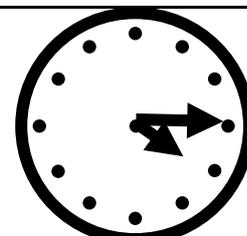
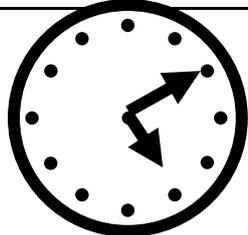
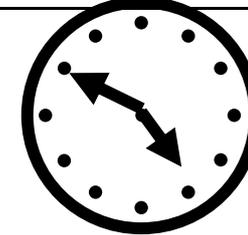
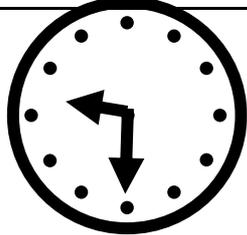
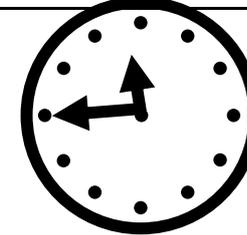
Mystery 2: Time's up

Next, you head to the local jewellery shop. They tell you that the climate activist has been helping them to reduce their energy use by turning off their lights when they were not using them, turning the heating down by 2°C and turning the heating off in unused rooms. The shop owner tells you the climate activist left a message behind to say what option saved the most energy, but it got a bit scrambled.

If you can work out the correct times you can spell out what the activist said. Match the time calculations to the correct clocks. Then, rearrange the words below the correct clocks to make the activist's message.

Clues

1. The time on this watch should be 1 $\frac{1}{4}$ hours after midday.
2. The time on this watch should be 2.75 hours after 6.20am
3. The time on this watch should be 1 $\frac{1}{2}$ hours before 17.10
4. The time on this watch should be 6.5 hours after 9.55pm
5. The time on this watch should be 8 $\frac{1}{3}$ hours before 15.00

 turn	 lights	 heating	 your
 off	 2°C	 down	 rooms
 up	 unused	 any	 in

Words _____

Message _____

Mystery 3: Crack the code

Next, you head to your local council office. They say they have had a letter from the climate activist to ask them to make it safer to use their favourite form of active transport. Crack the code to find out how and work out what their favourite form of active transport is.

Code: 21 11 27 41 32 21 11 58 35 61 47 26 18 39 52 39 41 11 58

Answer: _____

$A = 4/7 \text{ of } 56$	$I = (27 \div 3) + 9$	$R = (5 \times 10) - 3$
$B = 2/3 \text{ of } 39$	$J = (6 \times 7) + 1$	$S = (18 + 11) \times 2$
$C = (61 + 17) \div 2$	$K = (11 \times 6) - 9$	$T = (3/5 \times 50) + 1$
$D = 27 + 6 - 17$	$L = 23 + 18$	$U = (9 \times 9) - 13$
$E = (48 \div 6) + 3$	$M = (22 \div 2) \times 4$	$V = (3 \times 5) - (8 \div 4)$
$F = 24 + 17 - 6$	$N = (5 \times 6) - 9$	$W = 3/5 \text{ of } 45$
$G = 9 \times 7$	$O = (6 \times 9) + 5$	$Y = 23 + 18 + 11$
$H = (2/3 \times 30) + 3$	$P = 1/2 \text{ of } 58$	$Z = (12 \times 6) - 17$

Mystery 4: Notice of sale

You decide to pop into the local library. The librarian tells you that they saw the climate activist putting up a notice for a second-hand sale to help people reuse more items. The librarian says if you can answer her questions about the notice, she will tell you what reusable item the climate activist was carrying.

Read the notice then decide if the statements after are TRUE or FALSE (the sentences have been numbered to help you).

If there are more true answers, the climate activist was carrying a reusable coffee cup.

If there are more false answers, the climate activist was carrying a reusable water bottle.

Notice

- 1) Please come to the second-hand sale.
- 2) The sale will take place on Saturday at 2pm at the old Castle.
- 3) Please bring any unwanted, items especially those in good condition.
- 4) Their will be a stand selling very tasty cakes.
- 5) I think it will be a brilliant day.

	True	False
The last word in sentence 2 contains a silent letter.		
Sentence 5 is a fact.		
The first word in sentence 4 is spelt correctly.		
The second last word in sentence 3 is an adjective.		
The comma in sentence 3 is in the right place.		

Answer _____

Mystery 5: Natural instincts

Your final stop is at the local park, where you spot the head gardener. She says that the climate activist was there last week helping to plant trees. If you can answer her questions correctly, she will reveal which species of native tree the climate activist helped to plant.

The answers to each question are in the table below. Cross off each one as you go. The remaining answer will tell you what species of native tree was planted.

- 1) I am a vertebrate herbivore that eats grass.
- 2) I am a vertebrate that can fly and lay eggs.
- 3) I am an invertebrate that eats other invertebrates.
- 4) I am a vertebrate that spends its whole life in water and cannot breathe outside it.
- 5) I am a microorganism that is used to make bread.
- 6) I am an invertebrate that feeds on nectar.
- 7) I am a vertebrate that metamorphoses from having a tail and living in water to having four legs and living mostly on land.
- 8) I am a vertebrate that can fly, and I give birth to live young.

Rabbit Alder	Bumblebee Hawthorn	Robin Silver birch
Yeast Rowan	Dragonfly Alder	Common frog Rowan
Wood mouse Silver birch	Salmon Hawthorn	Pipistrelle bat Alder

Answer _____

Climate Action Week mystery activity pack answers

Mystery 1: Profit or Loss?

Sold

5 bowls of soup £3.20 each = £16.00

4 sandwiches at £2.75 each = £11.00

6 cups of tea at £1.49 each = £8.94

8 cups of coffee at £2.05 each = £16.40

Total = £52.34

Supplies used

Fruit and vegetables - £35 (minus 15% discount for orders over £30) = £29.75

Bread – 6 loaves at 89p each = £5.34

Tea and coffee – £18 plus VAT at 20% = £21.60

Total = £56.69

Profit or loss for morning

= £52.34 - £56.69 = -£4.35 = **shortbread**

Mystery 2: Time's up

1. 1.15 = your
2. 9.05 = turn
3. 3.40 = down
4. 4.25 = heating
5. 6.40 = 2°C

Message = **Turn your heating down 2°C**

Mystery 3: Crack the code

A = 32	I = 18	R = 47
B = 26	J = 43	S = 58
C = 39	K = 57	T = 31
D = 16	L = 41	U = 68

E = 11	M = 44	V = 13
F = 35	N = 21	W = 27
G = 63	O = 61	Y = 52
H = 23	P = 29	Z = 55

Code = **New lanes for bicycles**

Mystery 4: Notice of sale

True

False

False

True

False

More false than true, therefore answer = **water bottle**

Mystery 5: Natural instincts

1. Rabbit
2. Robin
3. Dragonfly
4. Salmon
5. Yeast
6. Bumblebee
7. Common frog
8. Pipistrelle bat

Answer remaining = wood mouse

Answer = **Silver birch**

Overall answer

Maryam Mackay