



Weather Together: Heatwaves – facts



20 Minutes



Whole group



Quiz



Learn why you need to prepare for heatwaves.

What you need

- [Heatwave facts](#) – printed and cut into cards, enough for 1 card per learner

Success criteria

- Must know the dangers of heatwaves.
- Should discuss some of the consequences of heatwaves.

How to run the activity

1. Invite learners to start by taking a pause [3].
2. Introduce the objective and big question [4,5].
3. Ask learners to review the images and outline what they think a heatwave is [6].
4. Share the definition with them and ask them to reflect on theirs [7].
5. Encourage learners to think about heat and temperatures by completing the warm-up [8].
6. Explain that learners will take part in a quiz but first they will learn the facts [9,10]
7. Work through the quiz slides [11-27].
8. Review how learners did [28].
9. Refer back to the big question to review progress. Encourage learners to reflect on how their views of heatwaves may have changed now [29].

Ways to adapt

- Play the Kahoot version of the quiz. Divide learners into teams and give each team a device they can use to answer the questions.

Curriculum links

- England: PSHE, Language and literacy
- Scotland: Health and wellbeing, Literacy
- Wales: Health and Wellbeing, Languages, Literacy and Communication
- Northern Ireland: Communication, Thinking skills and personal capabilities, Language and literacy.



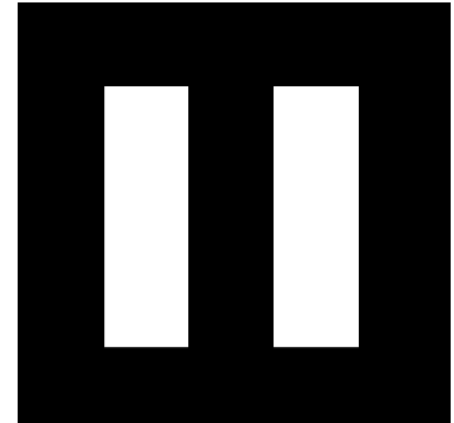
BritishRedCross

Your happy place

Imagine a place you love, that makes you feel happy. Focusing on something positive when we feel anxious can help us cope.

1. Sit up straight, close your eyes if you want to, take a few deep breaths and imagine a place that makes you feel relaxed and happy.
2. What can you smell?
3. What can you hear?
4. Is anyone with you?

Take a pause

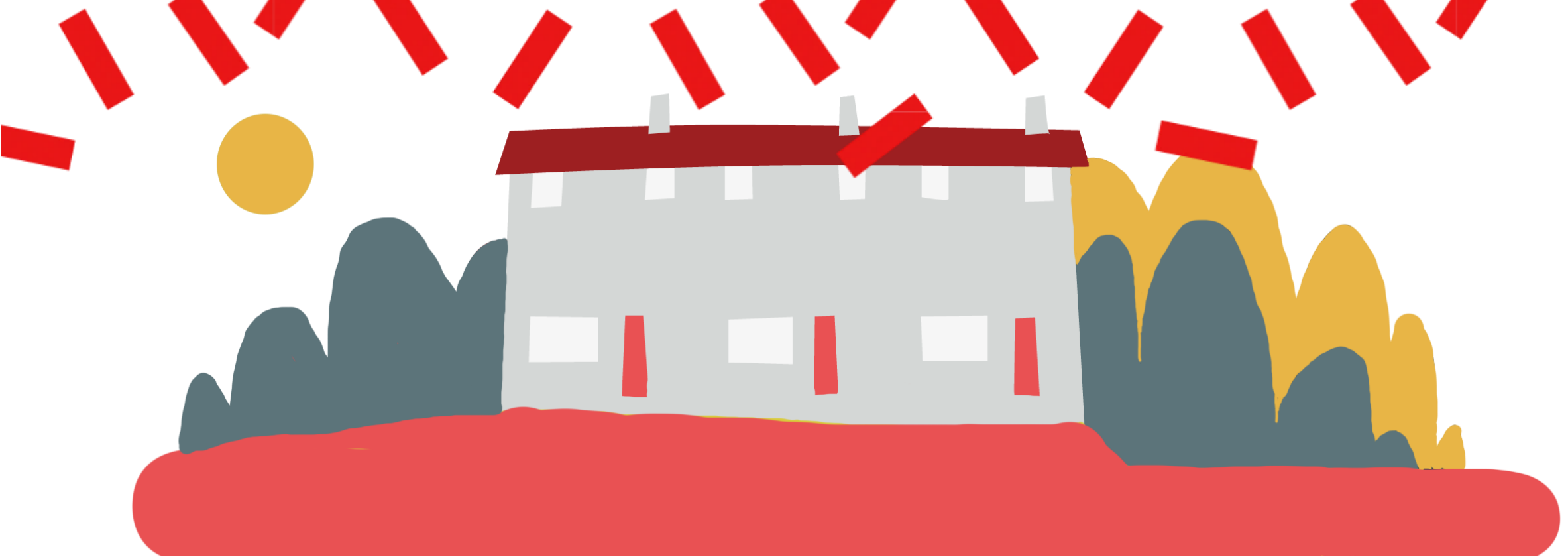


happy place

Pause

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- Objective: **Learn** why you need to **prepare** for a heatwave.
- To meet this objective, you'll learn what a heatwave is and why they can be dangerous. You'll complete a quiz to help you remember the information.





Next slide

Big question

How do
heatwaves
affect
people?

Weather Together



Heatwaves



Facts

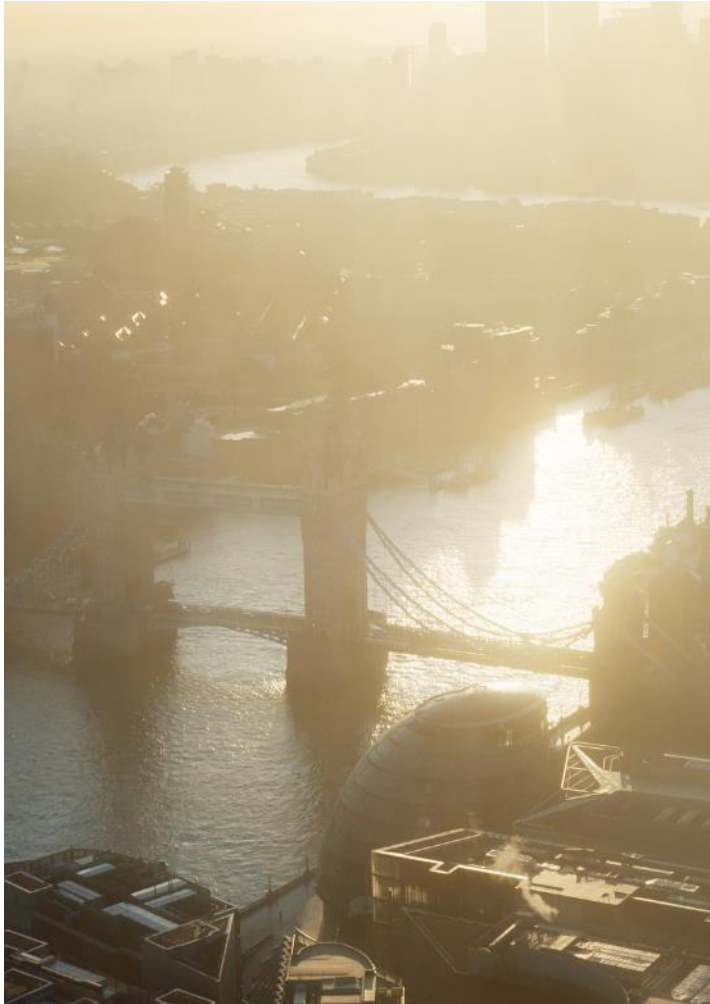


Learn



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What do these images show?



Use your ideas to talk to a partner about what you think a heatwave is.



Make notes on your ideas
get ready to share them with the group.



Next slide

What is a heatwave?

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Weather Together



Heatwaves



Facts



Learn



What is a heatwave?

Heatwaves are periods of unusually high temperatures that last for 3 or more days.

Next slide

Heatwaves

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Weather Together



Heatwaves



Facts



Learn



Warm-up: How hot does it need to be...

Next slide

1. For an ice cube to melt?
2. To cook an egg?
3. For a walk to be dangerous to a dog's health?
4. For a road to melt?
5. For the number of people needing heat-related medical help to increase?



0°C

74°C

Did any of these surprise you?

25°C and over depending on the dog.

50°C – roads absorb heat and can reach this temperature in direct sun.

24.7°C across 2 days

Heatwaves

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Heatwaves

Facts

Learn



Heatwaves facts

Today you are going to take part in a heatwaves quiz.

But first, you're going to learn the answers!

1. Read your heatwave fact and discuss it with a partner to make sure you understand it.
2. Then, join up with a different partner and share your facts.
3. Repeat this until you have shared your fact with lots of partners.

Learn facts

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Heatwaves



Facts

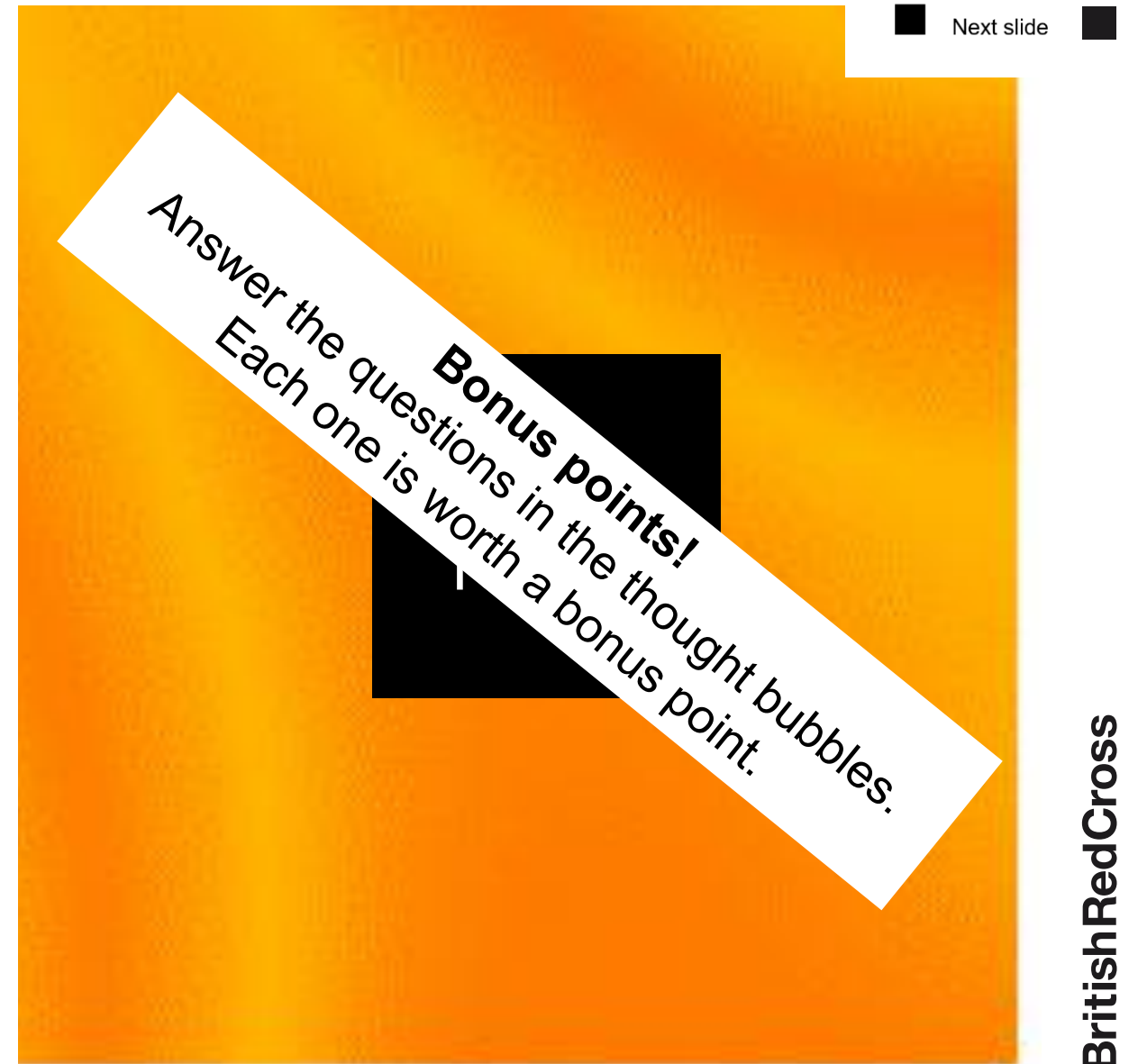


Learn



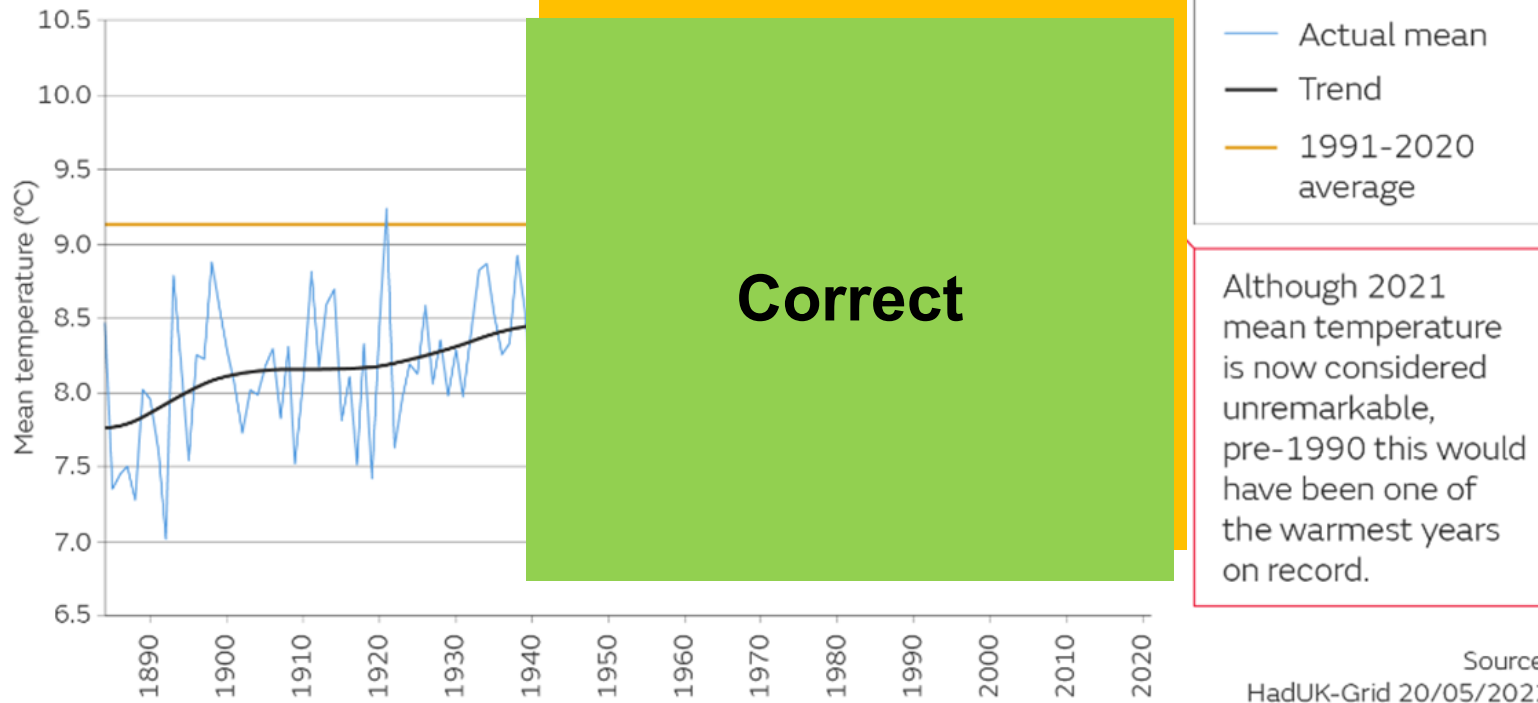
Heatwaves **quiz**

- The quiz is out of 10.
- Write 1 to 10 on a piece of paper.
- As you hear each question, write the answer 'yes' or 'no'.



1. Are temperatures in the UK going up?

Met Office Mean UK temperature by year



Tap for
bonus points.

Tap your
answer.

Yes

No

Heatwaves quiz

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Heatwaves

Facts

Learn

2. Are heatwaves something to look forward to?



Many people enjoy sunny days with temperatures in the ideal range, but heatwaves are becoming more frequent, longer, hotter and more dangerous.

Tap for **bonus points.**

Tap your **answer.**

Yes

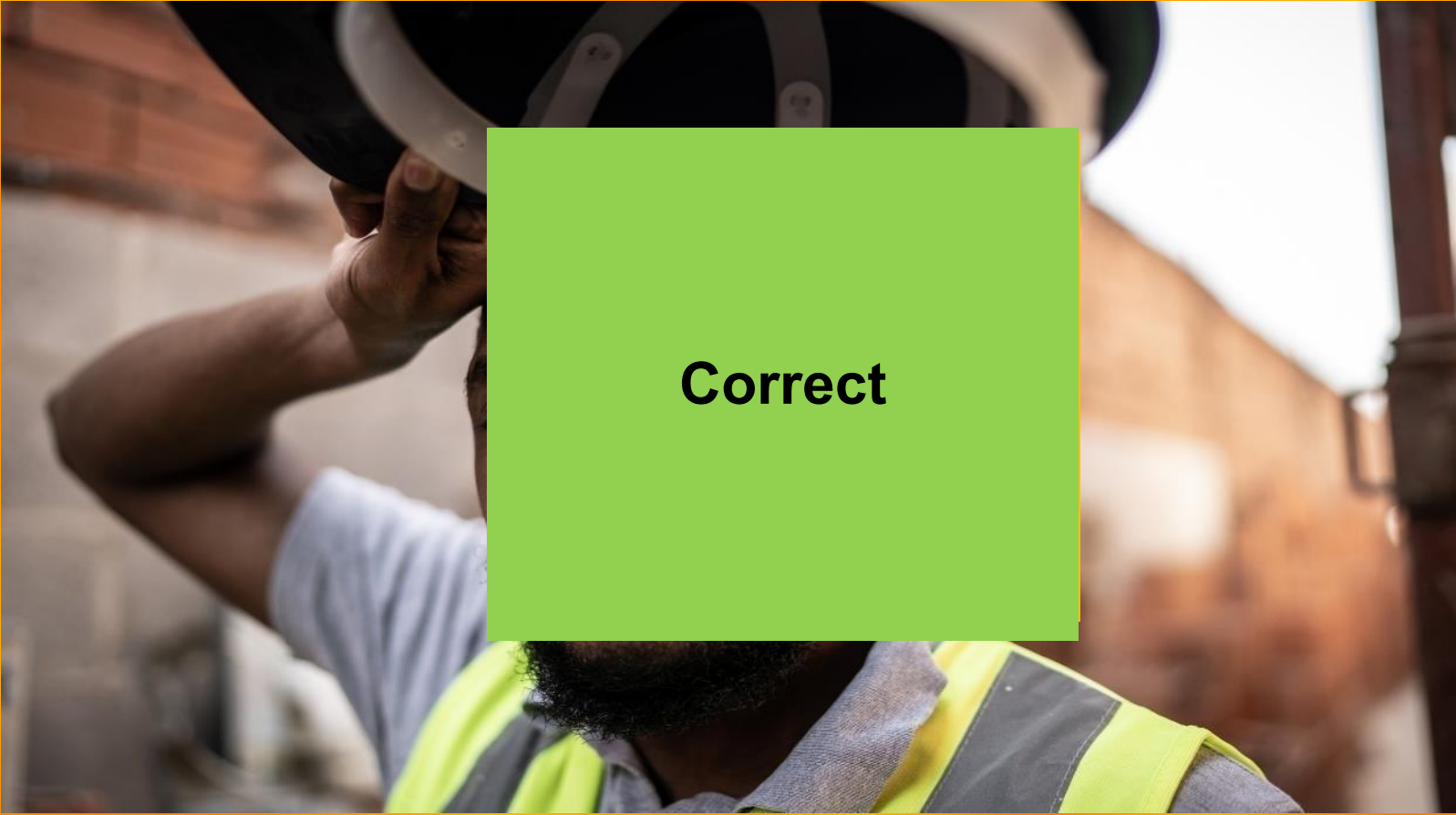
No

Heatwaves quiz

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3. Can heatwaves be dangerous to a person's health?



Correct

Tap for
bonus points.

Tap your
answer.

Yes No

Weather **Together**



Heatwaves



Facts



Learn



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3. Can heatwaves be dangerous to a person's health?

Dehydration

When your body loses too much water.

Heat exhaustion

When sweating causes loss of fluids and salts.

Sunburn

Skin damage caused by too much sun.

Heatstroke

When your body temperature gets dangerously high.

Emotional distress

When a person is extremely upset by a heatwave.

How could they affect pets?

Tap for definition.

Yes

No

4. Do different groups of people respond differently in a heatwave?



Correct

Tap for
bonus points.

Tap your
answer.

Yes No

Weather **Together**



Heatwaves



Facts



Learn



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4. Do different groups of people respond differently to a heatwave?

Next slide



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Heatwaves

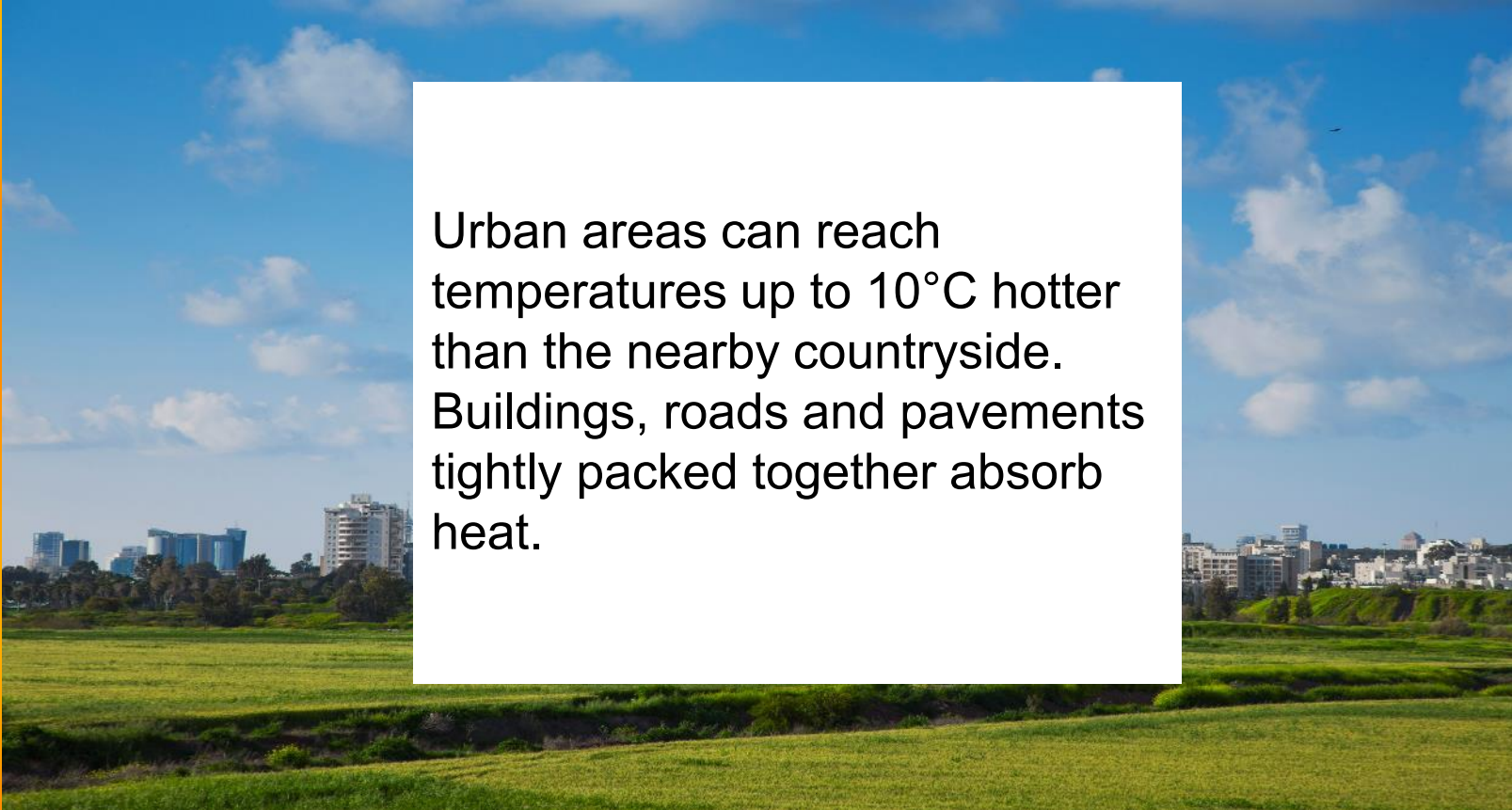
Facts

Learn



5. During a heatwave, do cities get hotter than the countryside?

Next slide



Urban areas can reach temperatures up to 10°C hotter than the nearby countryside. Buildings, roads and pavements tightly packed together absorb heat.

Tap for
bonus points.

Tap your
answer.

Yes

No

Heatwaves quiz

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Weather **Together**

Heatwaves

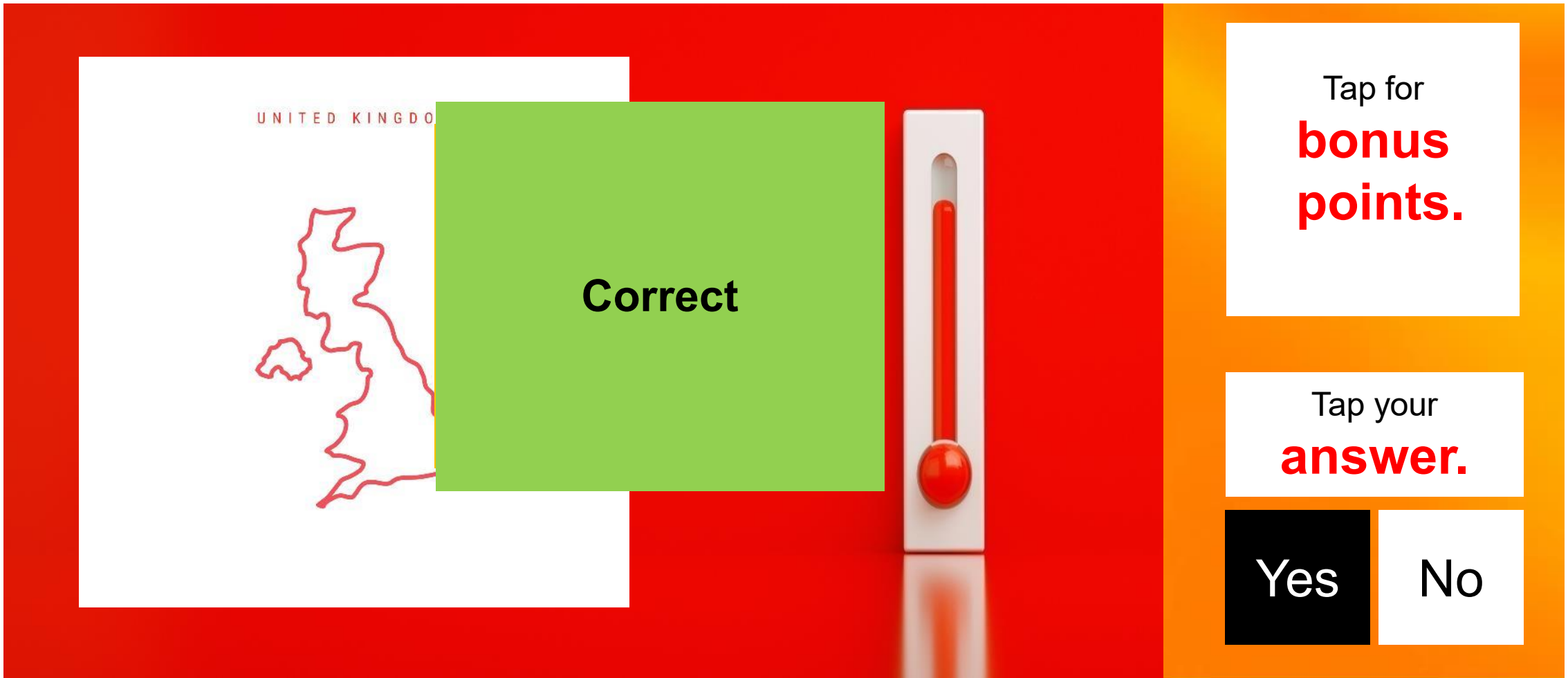
Facts

Learn



6. Was the hottest ever recorded temperature in the UK in 2022?

Next slide



The interface features a red background. On the left, a white map of the United Kingdom is partially visible, with the text 'UNITED KINGDOM' above it. A large green square with the word 'Correct' in black text is overlaid on the map. To the right of the map is a white thermometer with a red liquid column. On the far right, there is an orange panel containing three white boxes. The top box says 'Tap for **bonus points.**'. The middle box says 'Tap your **answer.**'. The bottom section contains two buttons: a black 'Yes' button and a white 'No' button.

Heatwaves quiz

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Weather **Together**



Heatwaves



Facts



Learn



6. Was the hottest ever recorded temperature in the UK in 2022?

Next slide

1st

In Coningsby, Lincolnshire, the temperature reached 40.3 degrees. This is the highest temperature ever recorded in the UK.

2nd

Before this, in Cambridge, the temperature reached 39.9 degrees in 2021. This was the hottest recorded temperature in the UK.

19 July 2022

19 July 2021

25 July 2019

3rd

Before this, the record was also from Cambridge where the temperature reached 38.7 degrees in 2019.

Why are temperatures getting hotter?

Tap 1st, 2nd, 3rd Information.

Yes

No

Heatwaves quiz

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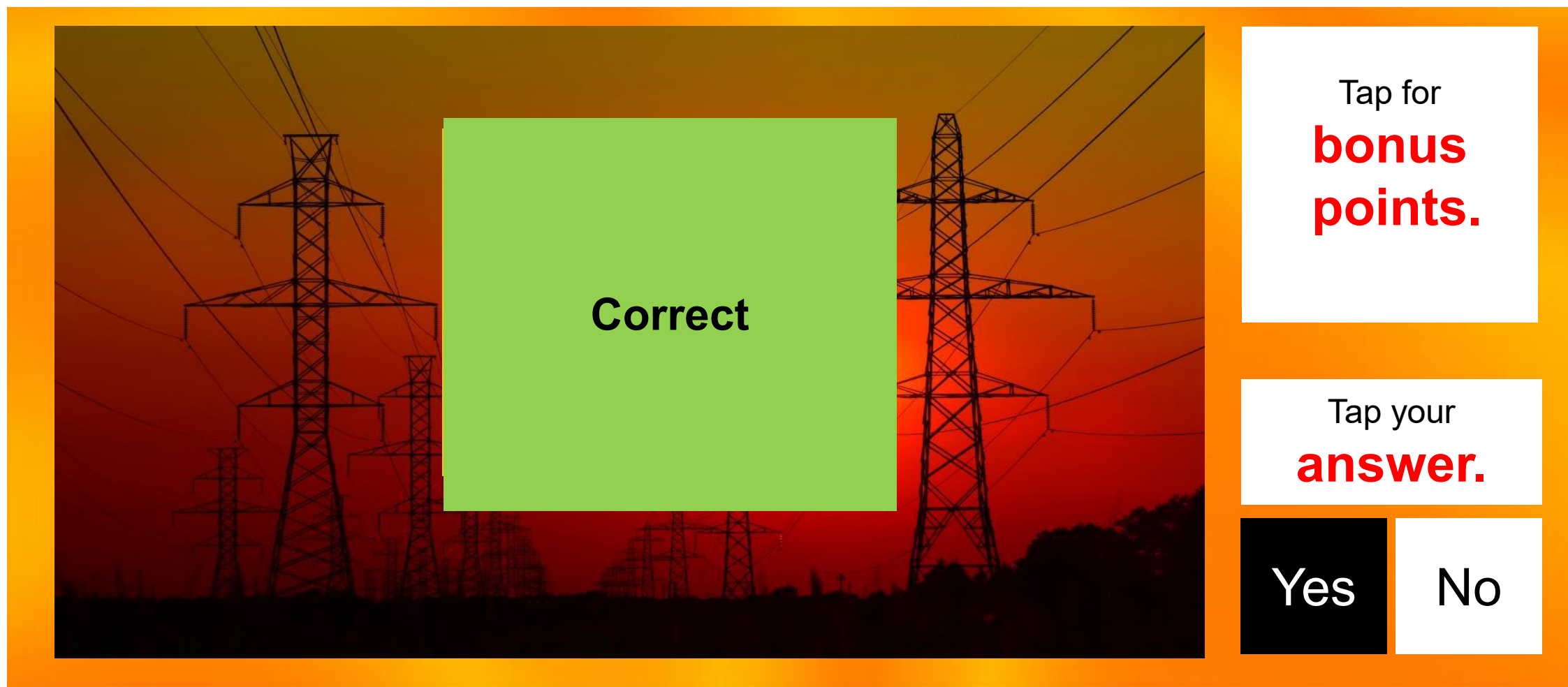
Heatwaves

Facts

Learn



7. Can mobile phones be affected by heatwaves?



Tap for
bonus points.

Tap your
answer.

Yes No

7. Can mobile phones be affected by heatwaves?

- Heatwaves can cause power cuts.
- In heatwaves, demand for electricity can increase.
- Sensitive equipment can be damaged by the heat.
- Power stations may have difficulty staying cool.
- High temperatures cause electrical cables to swell and break.



How would this affect you?

Tap image for **information.**

Yes

No



8. Do heatwaves damage cars?



Tap for
**bonus
points.**

Tap your
answer.

Yes

No



8. Do heatwaves damage cars?

- More cars break down during heatwaves.
- Roads can melt and buckle.
- Melted tarmac flicks up at cars, damaging them.
- Melted tarmac damages tyres.
- The roads tend to be busier, leading to more crashes.



How could this affect a person walking on a pavement?

Tap image for **information.**

Yes

No



9. Heatwaves are good for plants including fruits and vegetables on farms?

Next slide

Heatwaves quiz

Correct

Tap for
**bonus
points.**

Tap your
answer.

Yes

No

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Weather **Together**

Heatwaves

Facts

Learn



9. Heatwaves are good for plants including fruits and vegetables on farms?

- Heatwaves can cause farmers' crops to die.
- Field fires caused by heatwaves kill crops.
- What is produced tends to be much smaller and lower quality.
- Farm animals also struggle in the heat, especially when the grass turns brown and stops growing.



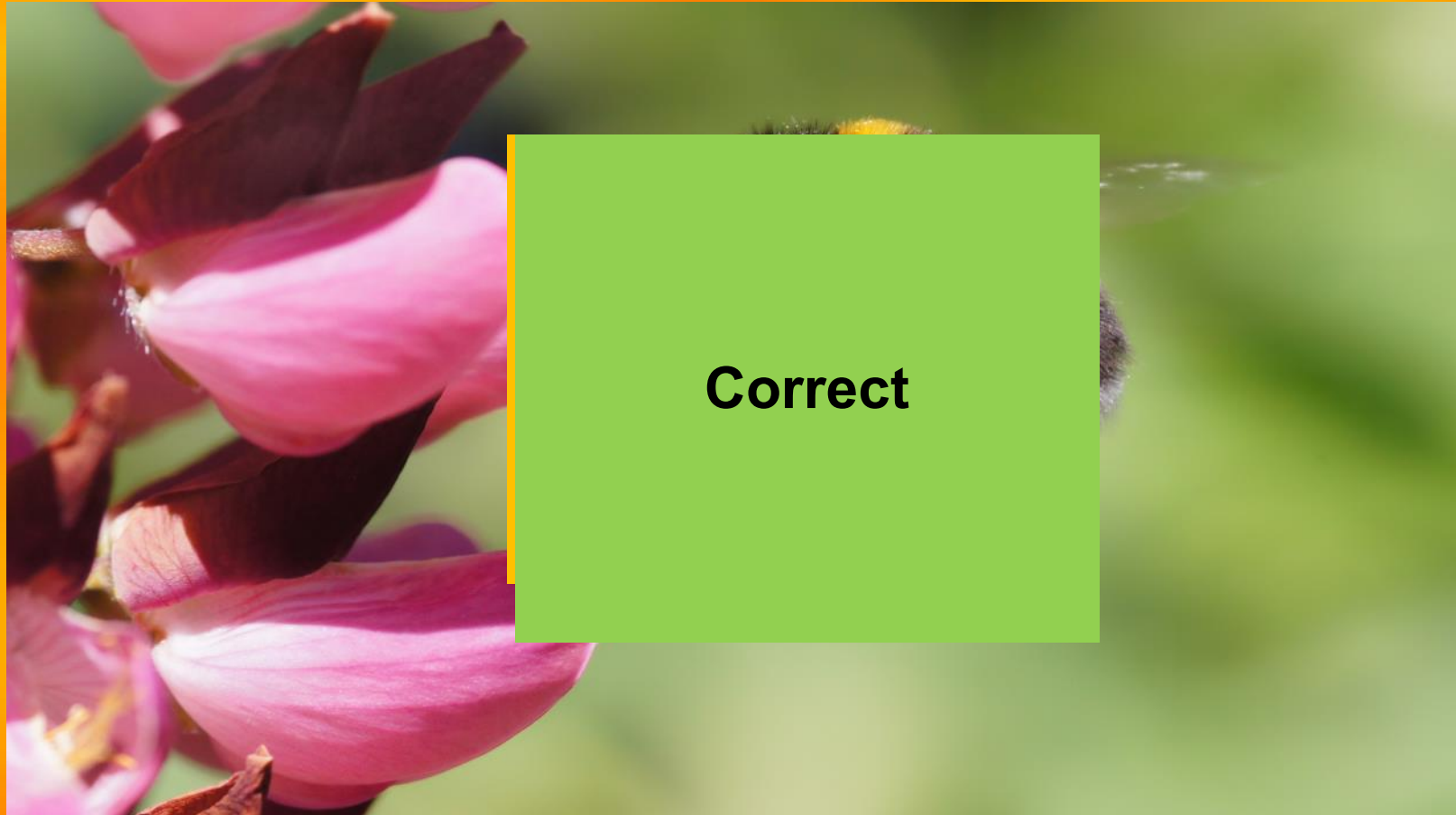
How could this affect the UK's food supply?

Tap image for **information.**

Yes No

10. Are heatwaves good for bumblebees as they can collect lots of nectar?

Next slide



Tap for
**bonus
points.**

Tap your
answer.

Yes

No

Heatwaves quiz

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Heatwaves



Facts

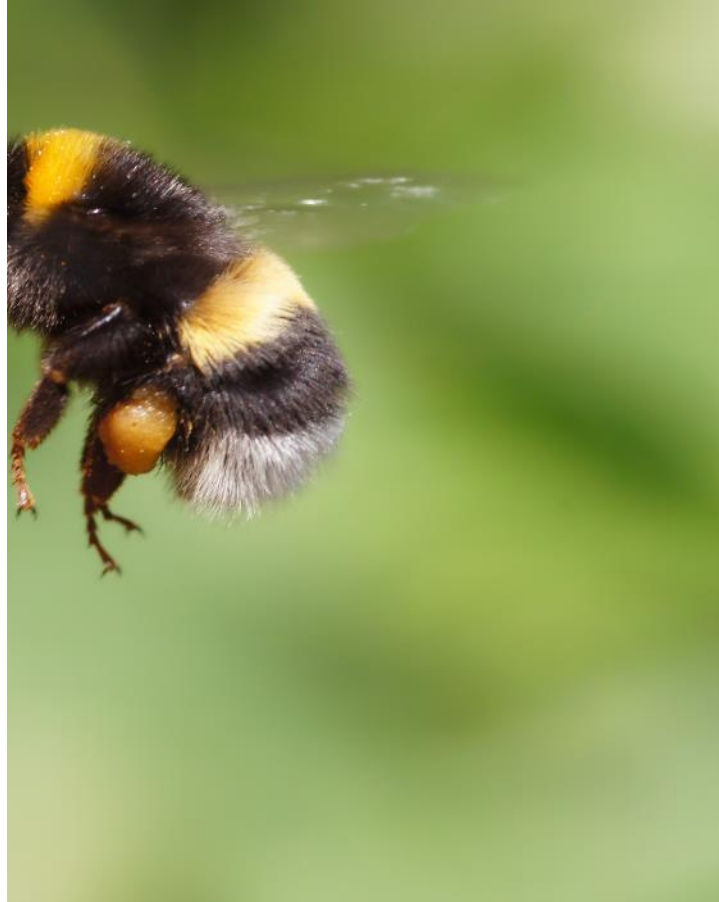


Learn



10. Are heatwaves good for bumblebees as they can collect lots of nectar?

- Heatwaves are bad for bumblebees.
- Their thick fur means they struggle to stay cool.
- If they are too hot, they can't fly which means they can't find food.
- They keep some food in their nests but this only lasts for a short time.



How could damage to plants affect bees?

Tap image for **information.**

Yes

No

Heatwaves **quiz**

- Count up your points.
- Add together your correct 'yes' and 'no' answers and any bonus points you earned.
- You could score a maximum of 20 including the bonus answers.

How did you do?

Next slide

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Heatwaves

Facts

Learn





Next slide

Big question

How do
heatwaves
affect
people?

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Heatwaves



Facts



Learn



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Resources and support

Weather **Together**



Heatwaves



Facts



Learn



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Where to find more information



Stay cool in a heatwave

Find out the very best ways to keep cool in the heat, and why you shouldn't believe some of those old myths.

> [How to keep cool during hot weather](#)

Learn how to stay cool in hot weather.



<https://www.redcross.org.uk/stories/health-and-social-care/first-aid/beat-the-hot-weather-top-tips-for-staying-cool>

Visit the British Red Cross website to read the Feeling the Heat report.



<https://www.redcross.org.uk/about-us/what-we-do/we-speak-up-for-change/feeling-the-heat-a-british-red-cross-briefing-on-heatwaves-in-the-uk>

Visit the British Red Cross website to learn more about how to prepare for and cope with heatwaves.



<https://www.redcross.org.uk/get-help/prepare-for-emergencies/heatwaves-uk>

Weather Together



Heatwaves



Facts

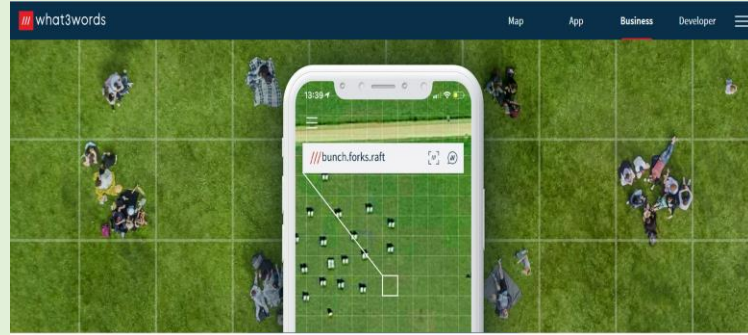


Learn



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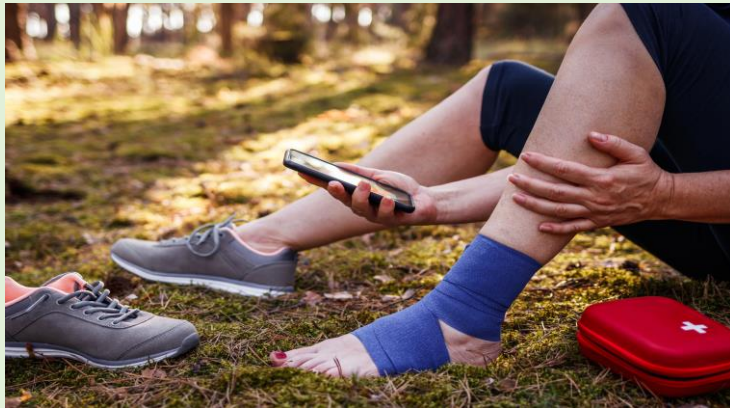
Resources



Never get lost again

With the what3words app, it's easy to find, share and save precise locations.

1. You could get the **what.three.words** app



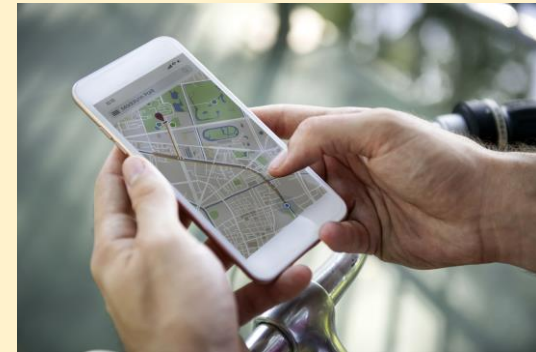
How to tell the emergency services where you are



what3words.com/products/what3words-app

2. Some **smartphones** have a built-in feature to call the emergency services and share your location. Find out how to use this on your phone.

3. You could also use a **maps app** to pinpoint and share your location. Learn how to do this so you're ready for an emergency.





You can also find tips on how to prepare for emergencies both at home or while out and about.



Use this QR code to download

BritishRedCross

Learn first aid skills with our free app



Weather **Together**



Heatwaves



Facts



Learn



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First aid app

Flooding

How it affects everyone Learn

Read 3 characters' flood stories and discuss how they could be affected.

Investigating your risk Learn

Look at local flood maps and the role of the emergency services to explore how flooding can affect us all.

Worksheet: note writing help

The dangers of flooding Learn

Examine images of flooding and identify the dangers.

Game of BOB Apply

Play a scenario game to find out about bug out bags and why it is important to have one ready.

Prepare your home Apply

Play a 'choose your own adventure' game to learn how to respond to flood alerts and warnings.

Sharing ways to prepare Share

Create resources to share with friends and family. This activity is designed to be repeated.

Heatwaves

Facts Learn

Find out about the effects of heatwaves through completing a quiz.

Worksheet: heatwave facts to print

Safety Apply

Learn how heatwaves affects our body and the first aid to help. Apply these to different scenarios.

Poster: heatwaves scenarios

Poster: heatwaves first aid

Help others cope Share

Create a decision flowchart to share with friends and family to help them prepare for a heatwave.

Worksheet: decision flowcharts



Rate these resources

Fill in this quick survey to help us improve Weather Together.

[Link](#)

Eco-anxiety

What is it Learn

Read a character's experience of eco-anxiety and use this to define what it is.

How to cope Apply

Examine a list of ways to cope and apply this to yourself and others.

Worksheet: coping with eco-anxiety

Helping others Share

Create a video/script for social media of how to cope with eco-anxiety to share with friends and family.

Worksheet: eco-anxiety video script

For use across all topics

Starters

Bronze certificate

Plenaries

Silver certificate

Weather Together
award tracker

Gold certificate

Open another activity

Click here to open the full web index.

[Link](#)

Weather Together



Heatwaves



Facts



Learn



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