

THE LASTMINUTE.COM LONDON EYE

EARTH HOUR KS2/3 ACTIVITIES – TEACHER NOTES

IN-POD

These activities have been designed to take approximately 10 minutes and act as the main in-pod activity during a visit to the lastminute.com London Eye.

IN-CLASS

These activities can also be adapted to be used as classroom resources. Guidance is provided on how this can be done for each activity.

INTRODUCTION

Share a brief introduction with students on what the lastminute.com London Eye will be doing to support Earth Hour:

Lights out at the London Eye: Saturday 25 March 2023, 8.30 – 9.30pm, the lastminute.com London Eye will switch its lights off in support of Earth Hour.

Share additional information with students to help them understand the background and objective of Earth Hour:

At 8:30pm on Saturday 25th March 2023, millions of people across the globe will switch off their lights to show that they care about the future of our planet.

In the UK and around the world, nature – our life support system – is in crisis. We all need nature. And nature needs us to stand up for it every day.

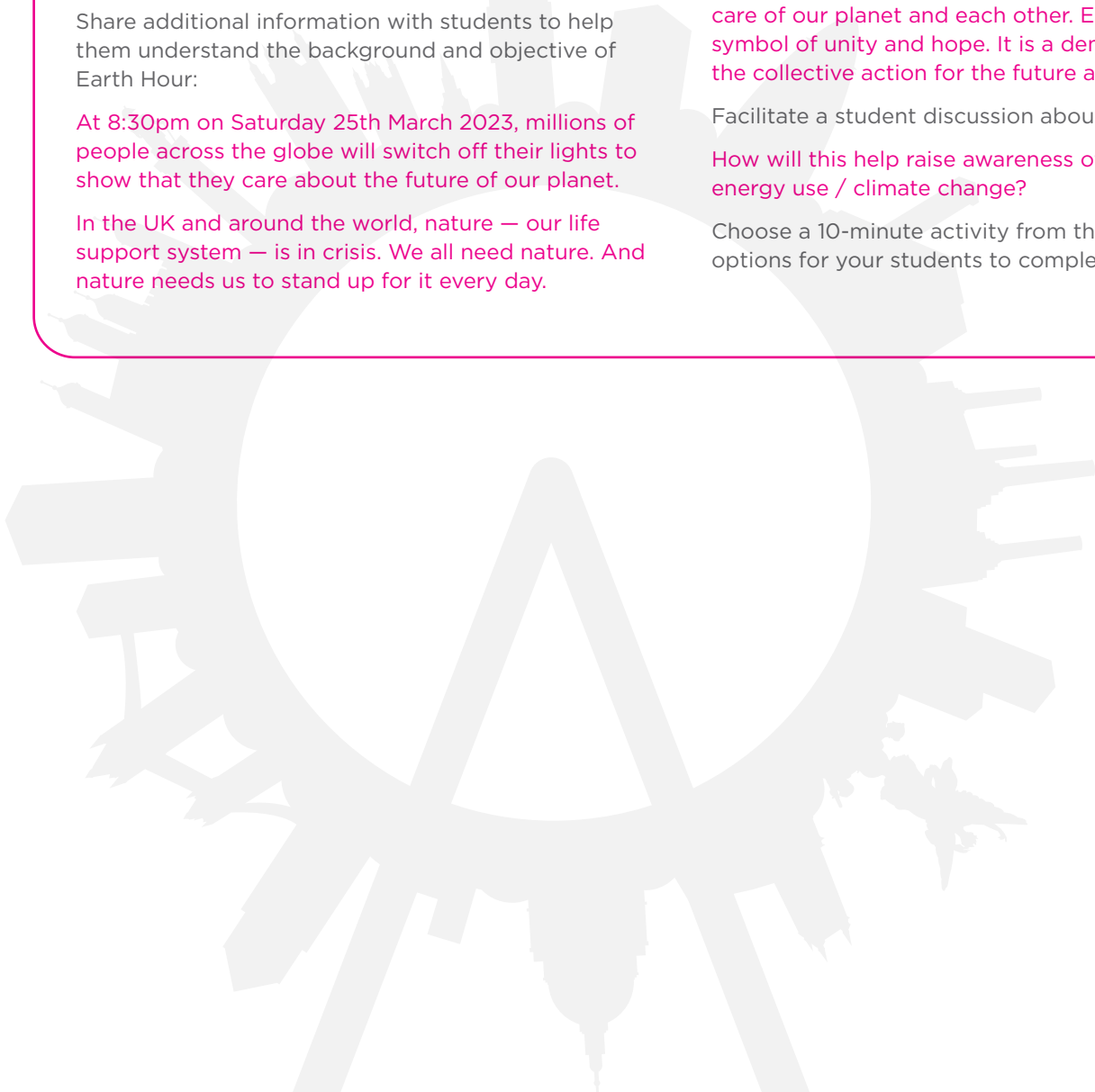
Earth Hour is a global movement that reminds us that together we can make small, positive changes to bring our world back to life. We all have a part to play – and Earth Hour is a great place to start, allowing us time to switch off from distractions and focus on our world.

It starts with a single switch. However, it's not just about 'an hour' but committing every day to take care of our planet and each other. Earth Hour is a symbol of unity and hope. It is a demonstration of the collective action for the future and the planet.

Facilitate a student discussion about the following:

How will this help raise awareness of the issue of energy use / climate change?

Choose a 10-minute activity from the following options for your students to complete.



ACTIVITY INSTRUCTIONS AND ANSWERS

ACTIVITY 1: LOCATION AND FACT MATCH ACTIVITY

Looking out over the London skyline (E, N, W, S), identify buildings that aim to be more energy efficient or help protect nature. Using the student worksheet provided within this pack, ask students to match each fact to the relevant building.

Answers for teacher reference:

East

The Walkie-Talkie

This curved building has a 'living' wall over 700m² which contains around 52,000 plants.

The O2 Arena

This entertainment location installed wind turbines to provide locally generated renewable energy to parts of the building.

North

Madame Tussauds London

At this attraction filled with celebrity figures, the Spirit of London ride – an exciting black cab journey through London's history – uses LED lighting to help save energy and reduce the building's carbon footprint.

National Theatre

All the electricity that powers this building from the National Grid is generated by wind and solar.

West

Windsor Castle

Some of the electricity for this castle is generated by a hydroelectric power scheme which harnesses the power of moving water on the River Thames.

Wembley Stadium

Organic fertiliser is used to maintain the pitch.

South

Big Ben

The light that shines from the top of the iconic clock tower uses LED lighting.

Lambeth Palace

In the garden of the official London residence of the Archbishop of Canterbury, the gardeners create different habitats, such as longer grass or piles of decaying logs, to encourage more wild creatures.

IN CLASS

This worksheet can also be used in class. Use an online map to help students recognise the location of the buildings.

ACTIVITY 2: SKETCH TWO BUILDINGS TAKING ENVIRONMENTAL ACTION

Ask students to identify the following buildings that can be seen from the London Eye that aim to be more energy efficient or protect nature. Share the information provided with your students so that they are clear on which buildings to sketch and what these buildings are doing to be more energy efficient or protect nature.

Information to share with students before they begin sketching:

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The Walkie-Talkie

This curved building has a 'living' wall over 700m² which contains around 52,000 plants.

The O2 Arena

This entertainment location installed wind turbines to provide locally generated renewable energy to parts of the building.

North

Madame Tussauds London

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IN CLASS

This can also be adapted to be an in-class activity. Images of the buildings as well as an online map will be needed to help students identify the buildings in class.

ACTIVITY 3: THE EYE IN NUMBERS – EARTH HOUR SPECIAL

Using the student worksheet provided within this pack, ask students to circle the correct numerical data about the London Eye. Ask them to think about what they've heard and make reasonable estimates.

Answers for reference

Height of the London Eye: **135 metres**

Time it took to build the London Eye: **16 months**

Number of people the Eye can hold per rotation: **800**

Cost to build the London Eye: **£75 million**

Circumference of the wheel: **424 metres**

The distance you can see from the London Eye on a clear day: **40km**

Number of pods: **32**

Weight of a pod: **10 tonnes**

Height of a pod: **4.9 metres**

Weight of the entire structure: **2100 tonnes**

Number of panels of glass in the entire structure: **1152**

Percentage of lighting on the London Eye that is LED: **100%**

Percentage of energy saved due to the new LED lighting system: **75%**

Number of LED bulbs used to light up the London Eye: **640**

Percentage of waste from the London Eye that goes to landfill: **0%**

Percentage of electricity used by the London Eye that is zero carbon: **100%**

Percentage of oils used on the London Eye that are biodegradable: **100%**

IN CLASS

This worksheet can also be used in-class

ACTIVITY 4: NEWS REPORTER

Ask pupils to imagine they are reporting from the London Eye during Earth Hour. They need to:

- explain what Earth Hour is
- explain how the London Eye is raising awareness of climate issues, reducing its own energy use and supporting Earth Hour
- explain what they can see / hear / feel (for this, students will need to imagine that they are at the London Eye, experiencing the 'lights off for Earth Hour')
- encourage others to visit / take part in Earth Hour

Pupils should use their main activity time in the Pod to plan their report. Some time back in the classroom should be allocated for creation and presentation of the report.

IN CLASS

Alternatively, both planning and writing/creation can take place in class.

ACTIVITY 5: DESIGN A POSTER/INVITE

Ask pupils to design a poster / invite for Earth Hour at the London Eye. They need to:

- explain why people should visit the attraction
- outline why Earth Hour matters
- explain why people should take part in Earth Hour themselves

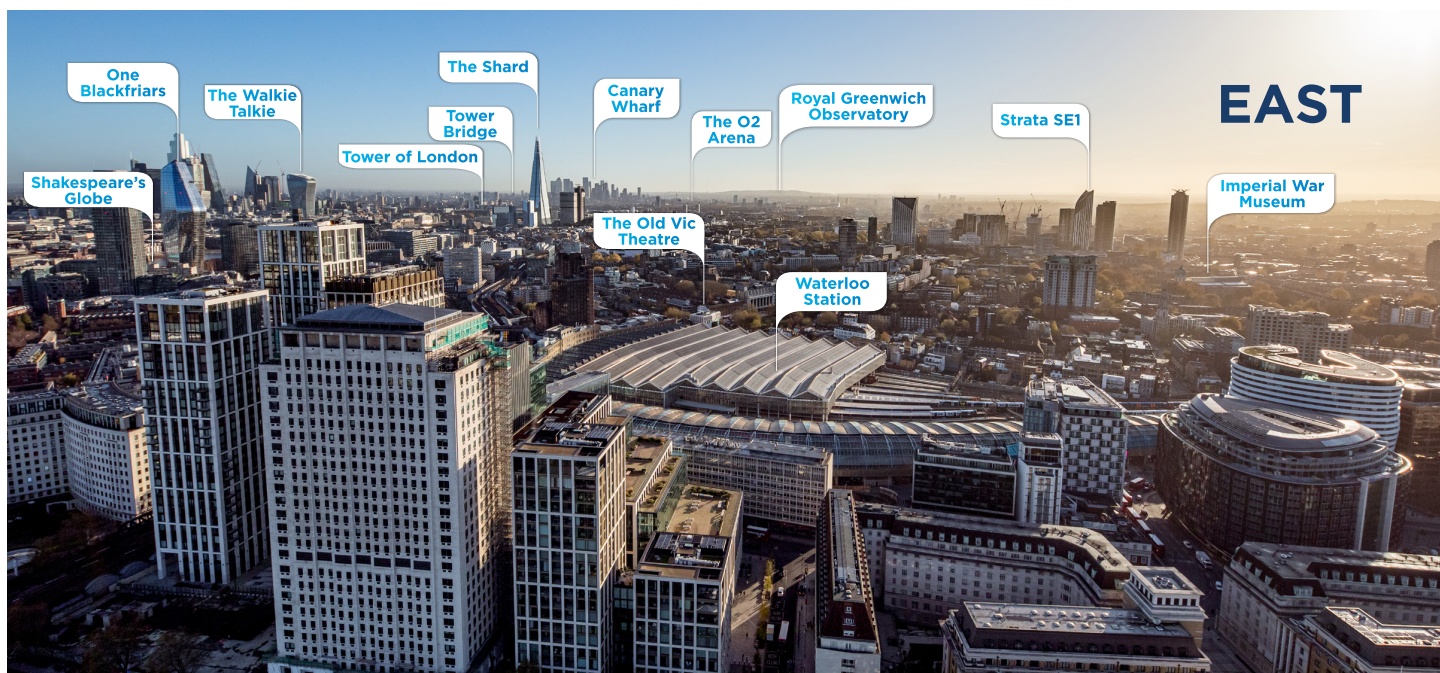
Pupils should use their main activity time in the Pod to plan their poster / invite. Some time back in the classroom should be allocated for creation of the poster / invite.

IN CLASS

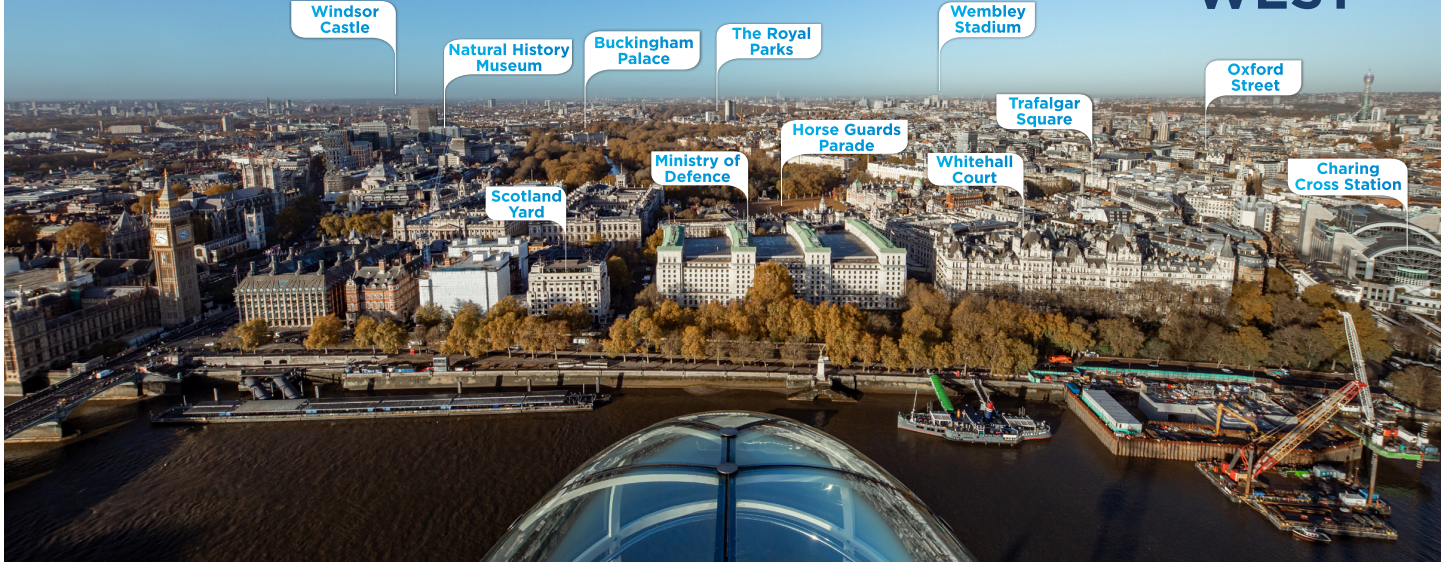
Alternatively, both planning and writing/creation can take place in class.



THE LASTMINUTE.COM LONDON EYE SKYLINE VIEWS — TEACHER REFERENCE SHEET



WEST



SOUTH



LONDON EYE FACT MATCH

STUDENT WORKSHEET

Looking out over the London skyline (East, North, West and South), identify buildings that aim to be more energy efficient or help protect nature. Match to the relevant fact explaining how.

East

The Walkie-Talkie

The O2 Arena

This entertainment location installed wind turbines to provide locally generated renewable energy to parts of the building.

Organic fertiliser is used to maintain the pitch.

North

Madame Tussauds London

National Theatre

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Windsor Castle

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All the electricity that powers this building from the National Grid is generated by wind and solar.

This curved building has a 'living' wall over 700m² which contains around 52,000 plants.

South

Big Ben

Lambeth Palace

Some of the electricity for this castle is generated by hydroelectric power scheme which harnesses the power of moving water on the River Thames.

The light that shines from the top of the iconic clock tower uses LED lighting.

THE EYE IN NUMBERS – EARTH HOUR SPECIAL

STUDENT WORKSHEET

Circle the correct numerical data about the London Eye. Think about what you've heard and make reasonable estimates.

| | | | |
|--|-------------|-------------|--------------|
| Height of the London Eye | 115 metres | 135 metres | 155 metres |
| Time it took to build the London Eye | 16 months | 24 months | 30 months |
| Number of people the Eye can hold per rotation | 640 | 800 | 960 |
| Cost to build the London Eye | £45 million | £75 million | £100 million |
| Circumference of the wheel | 424 metres | 524 metres | 624 metres |
| The distance you can see from the London Eye on a clear day | 10km | 25km | 40km |
| Number of pods | 32 | 33 | 34 |
| Weight of a pod | 10 tonnes | 20 tonnes | 30 tonnes |
| Height of a pod | 3.5 metres | 4.9 metres | 5.5 metres |
| Weight of the entire structure | 670 tonnes | 1300 tonnes | 2100 tonnes |
| Number of panels of glass in the entire structure | 425 | 746 | 1152 |
| Percentage of lighting on the London Eye that is LED | 50% | 95% | 100% |
| Percentage of energy saved due to the new LED lighting system | 25% | 50% | 75% |
| Number of LED bulbs used to light up the London Eye | 64 | 640 | 6400 |
| Percentage of waste from the London Eye that goes to landfill | 0% | 10% | 25% |
| Percentage of electricity used by the London Eye that is zero carbon | 0% | 75% | 100% |
| Percentage of oils used on the London Eye that are biodegradable | 10% | 50% | 100% |