



South Yorkshire Schools' Climate Conference 2021 Timetable

To access a session, click on the name of the session in the timetable.

Monday 5th July 2021		
Time	Primary	Secondary
8:30 – 9:00	Morning warm-up: Short video - 'Our Time'	
9:00 – 9:30	Welcome: Dame Sarah Storey	
9:30 – 10:00	Beanworld! by Madame Zucchini (performance)	
10:00 – 10:30	Yorkshire Wildlife Trust	
10:30 – 11:00		Madame Zucchini (workshop)
11:00 – 11:30	Sheffield Renewables	
11:30 – 12:00	Let's Go Zero	Amazelab (wind turbines)
Lunch break: Short video - Barnsley Youth Council		
12:30 – 1:00	In-between the Trees (for teachers)	Sheffield Youth Strike 4 Climate
1:00 – 1:30	Amazelab (oceans)	Solutions for the Planet (travel, etc.)
1:30 – 2:00	Madame Zucchini (workshop)	
2:00 – 3:00	In-between the Trees	Hebridean Whale and Dolphin Trust
End of school day		
3:30 – 4:30	Teacher CPD: Leeds DEC	

Key

	Primary Session
	Secondary Session
	Combined Primary and Secondary Session
	Teacher Session

Sessions in red are LIVE with pre-recorded back-up.

To access a session, click on the name of the session in the timetable.

Tuesday 6th July 2021		
Time	Primary	Secondary
8:30 – 9:00	Morning warm-up: Short video - Hunter's Bar Infant School	
9:00 – 10:00	Alan J. Hesse	ThoughtBox
10:00 – 10:30	Kids Plant Trees	Solutions for the Planet (nature, etc.)
10:30 – 11:30		Hope for the Future
11:30 – 12:30	Eco-Schools	Clean Air Sheffield
Lunch break: Short video - Ludwell Primary School (solar panels)		
1:00 – 2:00	BOSH!	
2:00 – 3:00	School Energy Efficiency	Climate Conversations
End of school day		
3:30 – 4:30	Teacher CPD: Carbon Choices	

Key

	Primary Session
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Wednesday 7th July 2021		
Time	Primary	Secondary
8:30 – 9:00	Morning warm-up: Short video - Wales High School	
9:00 – 10:00		Hope for the Future with Olivia Blake MP
10:00 - 11:00	Zero Carbon Britain, Centre for Alternative Technology	School Energy Efficiency
11:00 – 12:00	Solar Active	
Lunch break: Video - Swinton School (solar powered cars)		
12:30 – 1:30	Whale and Dolphin Conservation	Zero Carbon Britain, Centre for Alternative Technology
1:30 – 3:00	Panel Discussion*	
End of school day		
3:30 – 4:30	Teacher CPD: AimHi	

Key

	Primary Session
	Secondary Session
	Combined Primary and Secondary Session
	Teacher Session

Sessions in red are LIVE with pre-recorded back-up.

Exceptions: the MP session and the panel session will not be pre-recorded.

*Panellists:

John Grant - Sheffield Hallam University

Rachel Kennerley - Friends of the Earth

Neil Kitching - author of Carbon Choices

Amanda Smith - Centre for Alternative Technology

Panel chaired by Patrick Wakefield - Sheffield Youth Strike 4 Climate

This timetable may still be subject to change. Date updated: 2nd July 2021



Teacher notes and resource list by session

PRIMARY

Monday 5th July 2021 (Primary)

Schools video

No resources needed.

Dame Sarah Storey

No resources needed. Video will last approx. 10 minutes. Could lead to class discussion about what Dame Sarah has said, and what pupils hope to get from the conference.

Madame Zucchini – Performance – LIVE SESSION

The performance will last 10 min then there will be a Q & A session.

Yorkshire Wildlife Trust

[Primary worksheet \(download\)](#)

[Primary worksheet Answers \(download\)](#)

Sheffield Renewables

[Primary Worksheet \(download\)](#)

[Primary Worksheet Answers \(download\)](#)

Let's Go Zero

The video lasts about 17 minutes. Use the last 10 minutes or so to discuss: 'How many things can you remember from the video?', 'What things can you do to reduce your carbon footprint?'

In Between the Trees (for teachers)

No resources needed.

Amazlab (oceans)

[Amazlab Ocean resource sheet \(download\)](#)

Madame Zucchini – Workshop – LIVE SESSION

Vegetables to make into vegetable characters, knife or scissors, and cocktail sticks.

In Between the Trees (for pupils)

[Alder Bee resource sheet \(download\)](#)

[Leaf Bashing Resource Sheet \(download\)](#)

[Natural Jewellery resource sheet \(download\)](#)

[Woodland Medallions resource sheet \(download\)](#)

Teacher CPD: Leeds DEC

The video will refer to resources on the LeedsDEC website - the link will be given in the video. You will need to sign up to access these, but this is free.

Tuesday 6th July 2021 (Primary)

School Video (5 minutes)

No resources needed

Alan J. Hesse

Plain paper, pencil, colours.

The video is about 25 minutes long, but it includes several stops for the teacher to pause while the kids get on with specific activities. Ideally children could have longer than this session to continue with their creations.

If schools are interested in taking this further, Alan delivers full workshops for this, usually in-person though remotely would not be impossible. The one for teachers is more high-level, like a 'train the trainer' session, and is calculated to last 2 hours. The one for pupils is broken down into steps and in total is calculated to last about 10 hours. If you are interested, contact Alan: <https://alanhesse.com/>

Kids Plant Trees

A short (4 minute) story for younger children to get them thinking about what they like to do outside.

Eco Schools

No resources needed.

Bosh! – LIVE SESSION

No resources needed.

School Energy Efficiency

No resources needed.

Teacher CPD: Carbon Choices

No resources needed

Continued on next page for Wednesday's resources.....

Wednesday 7th July 2021 (Primary)

School video

No resources needed

Zero Carbon Britain, CAT

[Primary workshop activity notes \(download\)](#)

Solar Active – LIVE SESSION

Option 1: Solar Car

You will need a car kit plus small pliers for building the kit. In this live session David Garlovsky will show you how to build your car from the kit. Only two pupils will be able to work on the kit. Some pupils could design a track for the car. Other pupils can work on wheel design. This document includes a list of possible materials:

[Function of Wheels and How to Design a Wheel \(download\)](#)

If they draw round a circular object to make the wheel, then the Maths for Solar Engineers' booklet shows them how to find the centre of the wheel. They will also need a pencil, a ruler, and compasses:

[Maths for Solar Engineers \(download\)](#) - Note to print as an A5 booklet, select 'Print double-sided' and 'Flip on **short** edge'.

They may also like to read this:

[How a Solar Cell Works \(download\)](#)

Option 2: Sources of Renewable Energy

Print out the A3 poster - preferably in colour. Suggested one between two. Then pupils can use this to complete the worksheet. They can also read about how a solar cell works:

[Poster \(download\)](#)

[Worksheet \(download\)](#)

[How a Solar Cell Works \(download\)](#)

Whale and Dolphin Conservation

20m tape measure

[Differentiated worksheets \(download\)](#)

Panel Session (1 hour 30 minutes)

[Ideas prompt sheet – carbon footprint \(download\)](#)

Teacher CPD – Aim Hi

Pen and paper to make notes.



Teacher notes and resource list by session

SECONDARY

It is advisable to have pen and paper available for all sessions. Click on the links to access worksheets and other documents

Monday 5th July 2021 (Secondary)

Schools video

No resources needed.

Dame Sarah Storey

No resources needed. Video will last approx. 10 minutes.

Could lead to class discussion about what Dame Sarah has said, and what pupils hope to get from the conference.

Madame Zucchini – Performance – LIVE SESSION

The performance will last 10 min then there will be a Q & A session.

Yorkshire Wildlife Trust

[Secondary worksheet \(download\)](#)

[Secondary worksheet Answers \(download\)](#)

Sheffield Renewables

[Secondary worksheet \(download\)](#)

[Secondary worksheet Answers \(download\)](#)

Amazelab (wind turbines)

Option 1: The main video for this session involves making a **simple wind turbine** from paper and a straw.

[Amazelab wind turbine resource sheet \(download\)](#)

Option 2: To make a **working model of a wind turbine**, your class can watch this video instead:

<https://www.youtube.com/watch?v=JXYkjHKakGE>

(the author of the video has given their approval for us to use it at this conference)

[Teacher notes and resource list for Fully Functioning Wind Turbine \(download\)](#)

Sheffield Youth Strike 4 Climate

No resources needed

.....Monday resources continued on next page.....

Monday 5th July 2021 continued (Secondary)

Solutions for the Planet (travel, etc.)

The video will last about 10 minutes. Afterwards discuss as a class: 'Which ideas did you like best? Why? Which ideas do you think will have the most impact on the planet? Why? Which presentations did you like best? Why?'

Pupils could then get into groups of four, if possible, and brainstorm things they could do. Tomorrow there will be a second set of pupil ideas from Solutions for the Planet on the subject of 'Nature'. Other ideas that have been winners include eco-friendly makeup, and recycling clothes to make shoulder bags.

Hebridean Whale and Dolphin Trust

The video lasts 33 minutes, and there are several points where you will need to pause the video for pupils to answer questions.

Teacher CPD: Leeds DEC

The video will refer to resources on the LeedsDEC website - the link will be given in the video. You will need to sign up to access these, but this is free.

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Tuesday 6th July 2021 (Secondary)

School video (5 min)

No resources needed

ThoughtBox

No resources needed.

Solutions for the Planet (nature, etc.)

See Monday – after the video pupils can continue brainstorming ideas for their solutions.

Hope for the Future – LIVE SESSION

Pupils will be able to write their questions online using Google Forms. Pen and paper is optional.

Clean Air Sheffield

No resources needed

Climate Conversations

[Teacher guidance \(download\)](#)

Teacher CPD: Carbon Choices

No resources needed.

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Wednesday 7th July 2021 (Secondary)

School Video (5 minutes)

No resources needed.

Hope for the Future LIVE SESSION WITH OLIVIA BLAKE MP

Pupils should bring questions they have written to ask the MP (see Tuesday's session).

School Energy Efficiency

No resources needed.

Solar Active - LIVE SESSION

Option 1: Solar Car

You will need a car kit plus small pliers for building the kit. In this live session David Garlovsky will show you how to build your car from the kit. Only two pupils will be able to work on the kit. Some pupils could design a track for the car. Other pupils can work on wheel design. This document includes a list of possible materials:

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[Maths for Solar Engineers \(download\)](#) - Note to print as an A5 booklet, select 'Print double-sided' and 'Flip on **short** edge'.

They may also like to read this:

[How a Solar Cell Works \(download\)](#)

and this PowerPoint may be useful:

[PPT about gears \(download\)](#)

Option 2: Sources of Renewable Energy

Print out the A3 poster - preferably in colour. Suggested one between two. Then pupils can use this to complete the worksheet. They can also read about how a solar cell works:

[Poster \(download\)](#)

[Worksheet \(download\)](#)

[How a Solar Cell Works \(download\)](#)

Zero Carbon Britain

[Secondary workshop activity notes \(download\)](#)

[Worksheet \(download\)](#)

Panel Session (1 hour 30 minutes)

[Ideas prompt sheet – carbon footprint \(download\)](#)

Teacher CPD – Aim Hi

Pen and paper to make notes.



Ideas for Timetable Gaps or Extras:

1. If a live session is running for primary schools then there will be a gap at that time in the secondary timetable and vice versa. Later in the conference pupils will be able to use these gaps to complete activities they have begun in earlier sessions, for example working on their designs for a school wildlife garden, on their team's solution for the planet, or even building a model wind turbine. Early in the conference it would be a good idea for your class to use the Mackay Carbon Calculator:
<https://my2050.beis.gov.uk/?levers=1111111111111111>
This is a fantastic interactive resource where pupils adjust the amount of cars on the road, or solar panels on houses to find ways of getting to zero carbon emissions by 2050. If it seems too easy, then get them to consider the things they are changing in the simulator and whether they would find this acceptable in real life.
2. We have plenty of seawater, but climate change is causing glaciers to shrink at an alarming rate in places like the Himalayas, and changing weather patterns are causing prolonged droughts in many areas, leading to huge problems in people accessing fresh water. How can new technology help people have access to fresh water without using power from fossil fuels? One key idea is solar desalination. Pupils can do this themselves very simply - see this YouTube video:
<https://youtu.be/1qD0QGiKtXM>
or this video, that teaches pupils about the science of what is happening:
<https://youtu.be/3h49i1iDNP4>
This is so important that in America they are offering a \$2 million reward for the best idea!
<https://youtu.be/AeT6IYSNPkM>
3. How about making a whole lesson out of the Aim Hi Climate Word competition?
This PowerPoint is aimed at secondary school students and creates discussion around the English Language, but could be adapted as appropriate:
[Aim Hi Word Creation Competition PowerPoint \(download\)](#)
4. Other ideas include these programmes and films:
 - the recent BBC Christmas Lectures on climate change
 - an episode of Ade on the Frontline (BBC2)
 - recent David Attenborough films
 - 'The Boy who Harnessed the Wind'
 - 'The Inconvenient Truth' (Al Gore)
 - 'The Age of Stupid'.

Did you know your school can host a screening of David Attenborough's Netflix film 'A Life on our Planet' - his witness statement. To register, go to: <https://attenboroughfilm.com/schools/>

(See also this TES article about the film:

<https://www.tes.com/news/david-attenborough-films-should-be-mandatory-schools>)