CREST SuperStar Kit Box Support session

February 2025

In partnership with

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Education Resources Manager, British Science Association

Housekeeping

- Thank you for your valuable time – this online session will last no more than 45 minutes.
- Please switch your cameras on if you're happy and able to. There will be a chance to ask questions towards the end of the session, or feel free to leave any comments and queries in the chat.

What we'll cover in today's session

- Timeline
- CREST kit box aims
- An introduction to your kit box – what are the CREST activities, equipment and printed resources included?
- An introduction to the supporting webpage and online resources available to help you
- Any questions?

Timeline for this academic year

Spring Term 1 2025 – Drop-in support webinar – Wednesday 5 February

Spring Term 2 2025 – Drop-in support webinar – Tuesday 25 March

Summer Term 1 2025 – Drop-in support webinar – Thursday 15 May

Summer Term 2 2025 – Post-activity evaluation

CREST SuperStar kit boxes - aims

- Participation and inclusion for all children (not just an enrichment activity!)
- Children given the opportunity to complete **at least 6 projects**, allowing them to gain their CREST Award and certificate
- Family involvement
- Use of the supporting resources (webpage, demo videos, drop-in webinar sessions)
- Evaluation, to capture successes and highlight areas for development
- Resources can be shared with colleagues and re-used next year!

Engage Teacher Network

Introducing the CREST SuperStar Kit Box

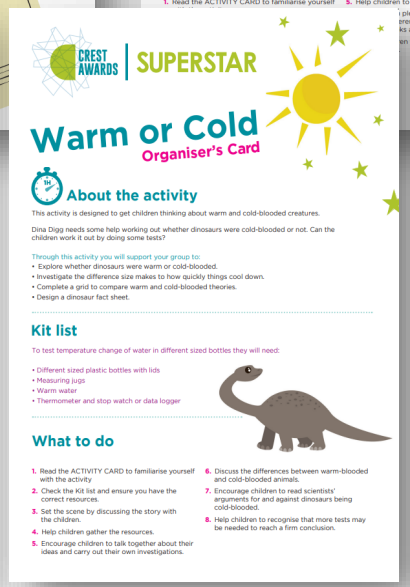
For primary pupils aged 7-11, or those working at this level

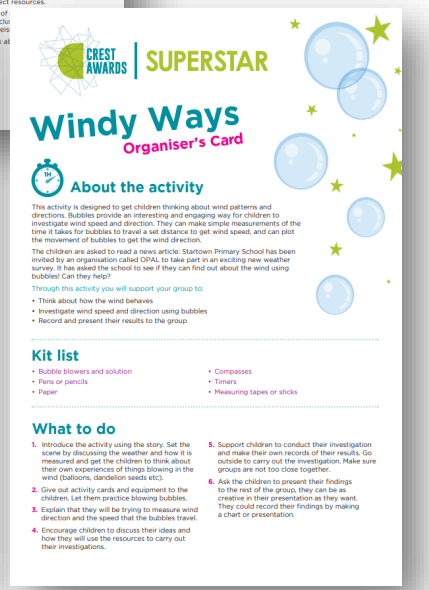
crestawards.org

Your kit box contains a white folder of printed resources:

- a welcome letter
- activity and organiser cards
- CREST passports
- CREST stickers
- CREST certificates
- CREST SuperStar iron-on badges

The 8 CREST activities





Crafty Rafts

Can be run in small groups or with a whole class (groups of 3)

This activity is designed to get children designing and making a raft that floats!

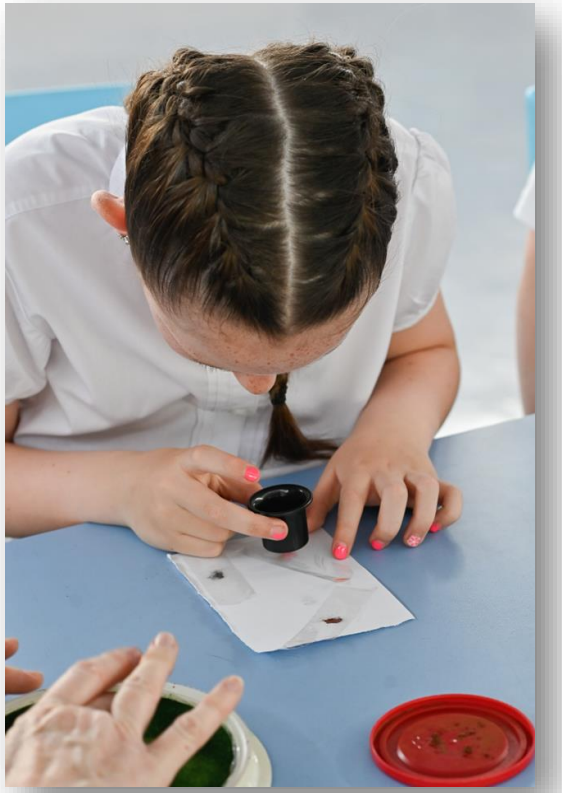
- Small inflatable pool
- Foil
- Marbles

Fantastic Fingerprints

Can be run in small groups or with a whole class (groups of 3)

This activity is designed to get children thinking about fingerprints.

- Cocoa powder
- Soft pencils
- Magnifiers



Investigating Ink

Can be run in small groups or with a whole class (groups of 3)

This activity is designed to get children thinking about how to identify different inks using chromatography.

- Water-soluble black ink pens
- Filter paper
- Measuring beakers

Playground Games

Can be run in groups or with a whole class (groups of 10)

This activity is designed to get children thinking about disabilities and creating games that are accessible and inclusive.

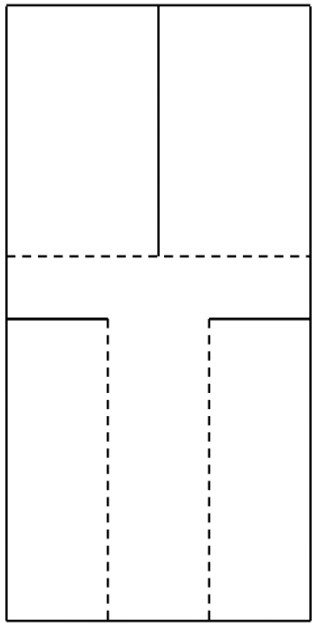
- Torches
- Ear plugs
- Bells
- Horns
- Blindfolds
- Glasses template

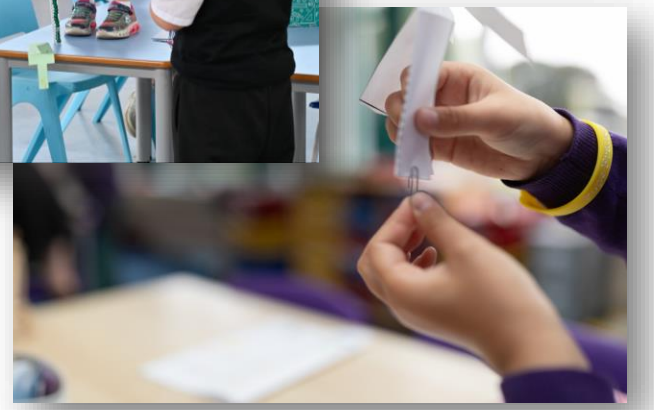
Super Spinners

Can be run in small groups or with a whole class (groups of 3)

This activity is designed to get the children thinking about helicopter blades, and how different blade sizes change the way a paper spinner falls.

- Super Spinners template
- Timers



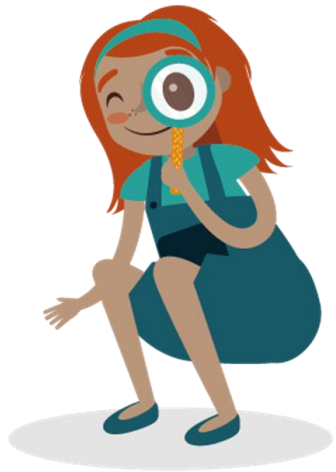


Under Your Feet

Can be run in small groups or with a whole class (groups of 3)

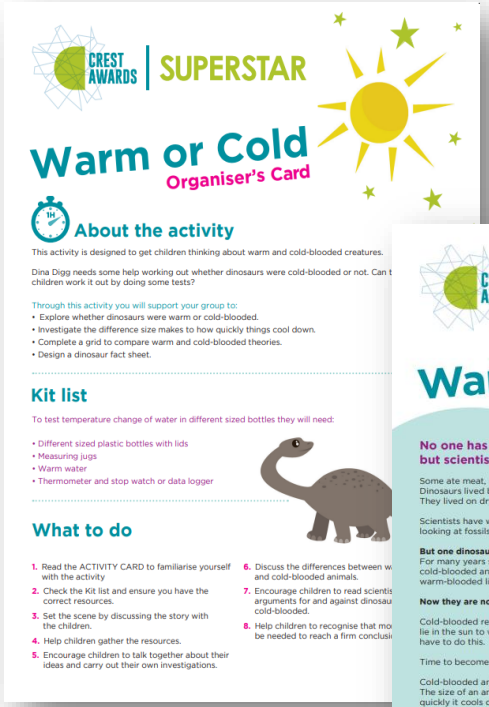
This activity is designed to get the children thinking creatively about nature.

- Magnifiers (from Fantastic Fingerprints)



Warm or Cold

Can be run in small groups or with a whole class (groups of 2 or 3)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Warm or Cold
Organiser's Card

About the activity

This activity is designed to get children thinking about warm and cold-blooded creatures.

Dina Digg needs some help working out whether dinosaurs were cold-blooded or not. Can t
children work it out by doing some tests?

Through this activity you will support your group to:
- Explore whether dinosaurs were warm or cold-blooded.
- Investigate the difference size makes to how quickly things cool down.
- Complete a grid to compare warm and cold-blooded theories.
- Design a dinosaur fact sheet.

Kit list

To test temperature change of water in different sized bottles they will need:

- Different sized plastic bottles with lids
- Measuring jugs
- Warm water
- Thermometer and stop watch or data logger

What to do

1. Read the ACTIVITY CARD to familiarise yourself with the activity
2. Check the Kit list and ensure you have the correct resources.
3. Set the scene by discussing the story with the children.
4. Help children gather the resources.
5. Encourage children to talk together about their ideas and carry out their own investigations.
6. Discuss the differences between w
and cold-blooded animals.
7. Encourage children to read scientis
arguments for and against dinosau
cold-blooded.
8. Help children to recognise that mo
be needed to reach a firm conclusi


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Warm or Cold
Activity Card

No one has ever seen a live dinosaur but scientists know a lot about them.

Some ate meat, some only plants. They laid eggs. Dinosaurs lived between 230 and 65 million years ago. They lived on dry land.

Scientists have worked out all these dinosaur facts from looking at fossils.

But one dinosaur fact is still puzzling Dina Digg.
For many years scientists believed dinosaurs were cold-blooded animals, like modern reptiles, rather than warm-blooded like birds and mammals.

Now they are not so sure.

Cold-blooded reptiles like crocodiles and lizards need to lie in the sun to warm up. Warm-blooded animals do not have to do this.

Time to become a dino detective ...

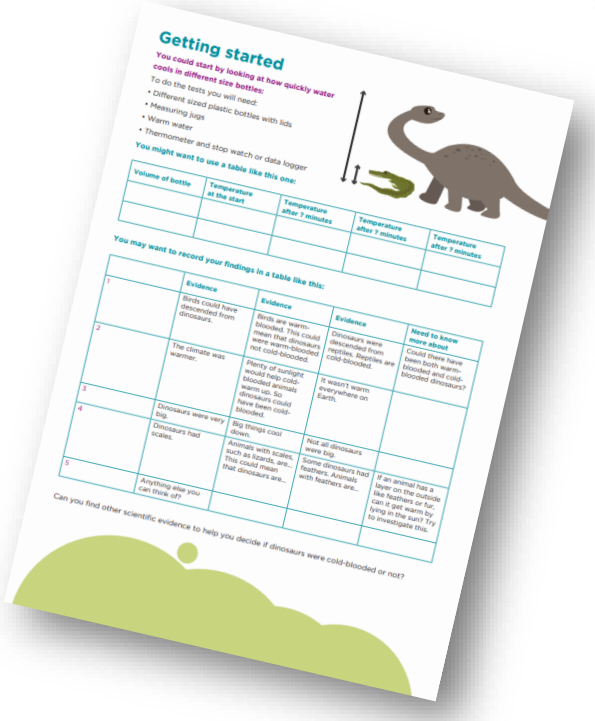
Cold-blooded animals get warm by lying in the sun. The size of an animal's body makes a difference to how quickly it cools down again. Many dinosaurs were very big. If dinosaurs were cold-blooded, would being big be a problem? Or would being big be helpful? Do big things cool down faster or slower than smaller ones?

Your challenge
Help Dina Digg to explore if size matters.

Discuss
You can't get a real dinosaur but you can use large and small plastic bottles to make model dinosaurs.
If you fill the bottles with warm water you can see how long they take to cool down.
What will you measure in your test?
How will you record your results?

This activity is designed to get children thinking about warm and cold-blooded creatures.

- Different sized plastic bottles with lids
- Measuring beakers (from Investigating Ink)
- Thermometer
- Timers (from Super Spinners)


Getting started

You could start by looking at how quickly water cools in different size bottles:

To do the tests you will need:
- Different sized plastic bottles with lids
- Measuring jugs
- Warm water
- Thermometer and stop watch or data logger

You might want to use a table like this one:

Volume of bottle	Temperature at the start	Temperature after 1 minutes	Temperature after 2 minutes	Temperature after 3 minutes

You may want to record your findings in a table like this:

	Evidence	Evidence	Evidence	Need to know more about
1	Birds could have descended from dinosaurs.	Birds are warm-blooded. This could mean that dinosaurs were warm-blooded not cold-blooded.	Dinosaurs were descended from reptiles. Reptiles are cold-blooded.	Could there have been both warm-blooded and cold-blooded dinosaurs?
2	The climate was warmer.	Plenty of sunlight would help cold-blooded animals warm up. So dinosaurs could have been cold-blooded.	It wasn't warm everywhere on Earth.	
3	Dinosaurs were very big.	Big things cool down.	Not all dinosaurs were big.	
4	Dinosaurs had scales.	Animals with scales, such as birds, are... This could mean that dinosaurs are...	Some dinosaurs had feathers. Animals with feathers are...	If an animal has a layer on the outside like feathers or fur, can it get warm by lying in the sun? Try to investigate this.
5	Anything else you can think of?			

Can you find other scientific evidence to help you decide if dinosaurs were cold-blooded or not?

Windy Ways

Can be run in small groups or with a whole class (groups of 3)

This activity is designed to get children thinking about wind patterns and directions. Bubbles provide an interesting and engaging way for children to investigate wind speed and direction.

- Timers (from Super Spinners)
- Bubble wands
- Bubble solution
- Compasses

Supporting resources

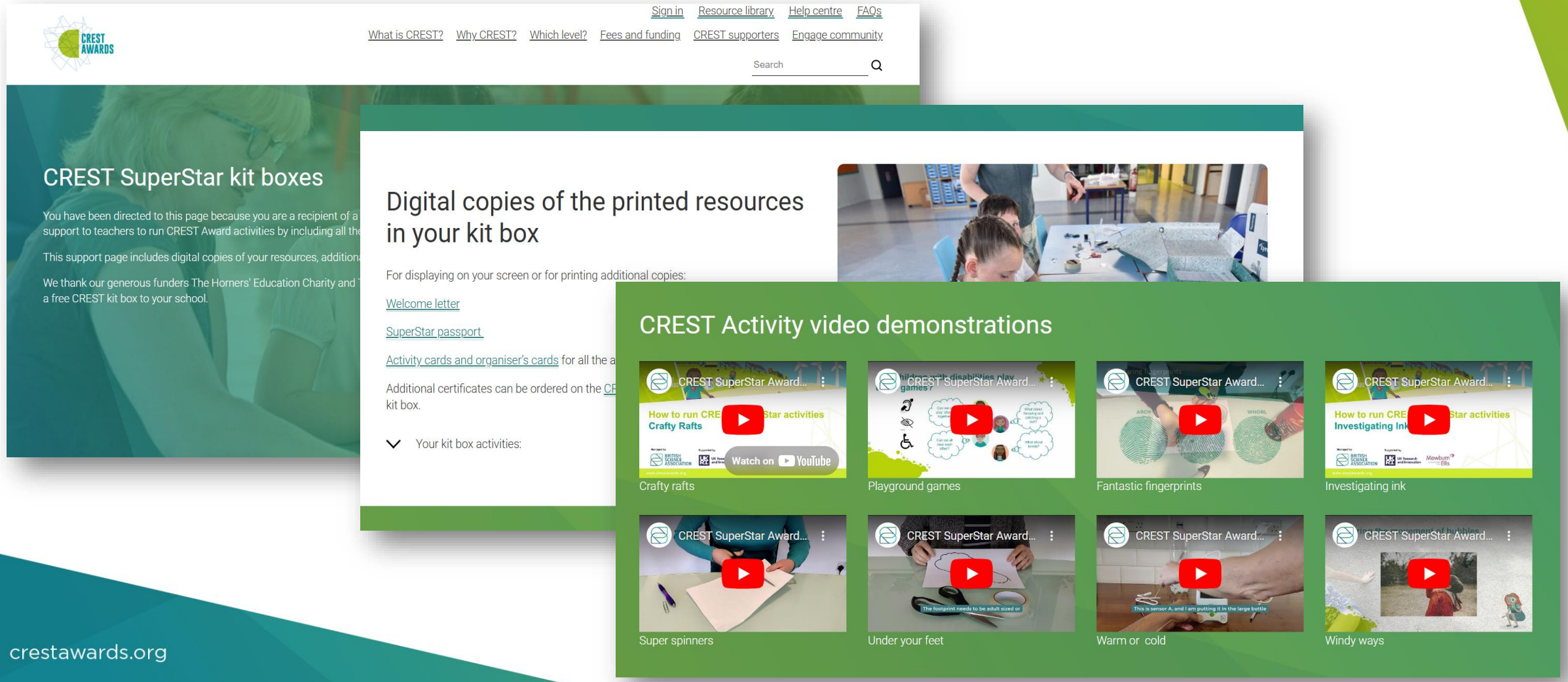
- Dedicated CREST SuperStar kit box webpage with links, ideas and FAQs

https://www.crestawards.org/kit-box/superstar

  - Demo videos for each activity showing you how to set up the equipment and run the activities
  - Digital versions of the resources so you can print additional copies

Supporting webpage

https://www.crestawards.org/kit-box/superstar



Involving parents and carers

- You could share photos of the children taking part in the activities in your newsletter, or on a photo sharing platform if you use one.
- You might like to invite parents and carers into your setting to support running the activities, or to see the investigations in action.
- Why not send some of the activities or follow-on tasks home, for families to try together.
- You could invite parents and carers to a special celebration assembly to watch the children receive their CREST certificates.

Ordering additional CREST certificates

Once your pupils have completed **at least 6 of the activities**, they can receive their CREST Award certificate!

- Your kit box contains enough CREST SuperStar certificates for a class of 30 but we know that some settings with larger cohorts may require extra copies.
- These can be ordered from our online platform which is linked on the SuperStar kit box webpage.

What next?

- We will share this presentation, so you have a record of the kit box overview
- We will be in touch with links to our next support webinars, but please feel free to get in touch with any queries in the meantime:

crest@britishscienceassociation.org

Thank you so much for your time!

CREST AWARDS

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Any questions?

BRITISH SCIENCE ASSOCIATION

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