

PRINTABLE SPEAKER'S NOTES for HUMAN IMPACT SESSION 3: THE BIG CHALLENGE - WELCOMING MIGRATING BIRDS

Link to PDF classroom presentation:

http://www.LEGO.com/cdn/cs/sustainability/assets/blt37b77174a8913290/Hi_BtC_3_Big_Challenge_Migrating_Birds.pdf

Italics = suggested speaking script. Standard text = notes to educator.

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LEGO

in partnership with **NATURAL HISTORY MUSEUM**

Build THE Change

The Big Challenge Welcoming Migrating Birds

supported by The LEGO Foundation

Printable speakers notes

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Use as a holding slide before starting the workshop.

Our Topic



The Big Challenge

Welcoming Migrating Birds

Welcome to the final session of this Build the Change course!

In this session we hand it over to you to design and create a solution for the BIG CHALLENGE – a chance to combine all the cool stuff you have learned in previous sessions into one awesome idea!

Let's begin!

Please note: We have deliberately kept this slide very high level as following slides introduce the topic in more detail, including definitions of some of the key words too.

Eggs

from the Natural History Museum



Dunlin Eggs



Tree Pipit Eggs



Winchat Eggs

Image Egg Images © Trustees of the Natural History Museum

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Our friends at the Natural History Museum have been helping us learn about nature in this course!

Here are some different egg specimens from the Museum collections. Let's have a closer look at some of them.

- *What do you notice about them?*
- *What is the same about them? What is different?*

Notes about these specimens for teachers: Scientists ask themselves these same questions about eggs. The Museum has lots of eggs in its collection. These were collected a very long time ago. Collecting eggs is now actually illegal in many parts of the world, as it has a negative impact on birds. Because of this the Museum shares their collection with scientists all around the world so everyone can learn from them, without having to collect anymore eggs.

Scientists have learned that:

- Some eggs are speckled. This might help camouflage them.
- Some eggs are pointy in shape. Birds that are stronger fliers might lay more pointy eggs as it is a more aerodynamic shape.
- Some eggs are pale blue in color. This might help them stay the best temperature (light colors do not absorb as much energy from the sun).
- There is still lots to learn and understand about bird eggs and their adaptations.

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All of these eggs are from migratory birds. Does anyone know/remember what migrate means?

Migrate -----

To migrate is to move from one place to another. When we talk about animals migrating, it is usually over long distances and across different parts of the planet. Birds are amongst the animals that migrate the furthest distances. We will learn more about that later in the course. Can anyone name any other birds or animals that migrate?

Possible answers/prompts:

- Wildebeest
- Monarch butterflies
- Swallows and swifts
- Arctic tern
- Whales

DID YOU KNOW? *Even many moth species migrate! Some fly thousands of kilometers each year.*

Warm-up: Migratory bird race



First off, let's get warmed up!

What you need:

A ball that's OK to throw in class.

Directions:

1. Children stand randomly in class or outside. Each child is a migratory hotspot that their bird must visit on its journey from cold region to warm region.
2. The ball = bird (the class can give the bird a name!)
3. Teacher assigns one child as the origin and another child as the final destination.
4. Children must work out the best route that involves each hotspot/child and help the bird make its journey.

Reflection afterwards:

This is exactly what migrating birds need to do – they need to travel along a route and stop at hotspots where they can refuel, eat, rest and then start off again.

Imagine if each of these hotspots weren't that welcoming. What challenges might be waiting for them?

Do you think our local school area would be a welcoming hotspot for birds?



THE BIG CHALLENGE VIDEO

Now let's dive into a video which recaps the different types of human impact and introduces migratory birds, the fact that they need a network of places to rest and visit on their journey, and the subject of today's big challenge.

Play the video, "The Big Challenge: Welcoming Migrating Birds" (http://www.LEGO.com/cdn/cs/sustainability/assets/blt426a3a14d2f5b15e/Hi_BtC_3_Big_Challenge_Migrating_Birds_16x9_EN.mp4)



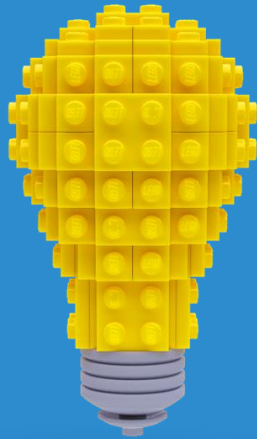
This slide is an opportunity to reflect and take in all of the information they have just heard.

If you are using the printable Build the Change Course Journal (http://www.LEGO.com/cdn/cs/sustainability/assets/blt46c9f2b09eb3a32f/course_journal_HI.pdf), ask the children to write down some problems migrating birds are facing in the box indicated for this session.

If you aren't using the booklet, reflect vocally as a class. Ask the children to share what stood out for them in the video.

Reflections:

- *What are your first thoughts on the challenge?*
- *Any ideas coming already?*
- *Think about which challenges from the case studies – habitat loss, water pollution, and noise & light pollution – you would like to focus on for your creation.*



Time to create...

A welcoming neighborhood which migratory birds and humans can share.

TIME TO CREATE

This is the final hands-on creative challenge of this course, bringing together everything the students have learned in the previous sessions.

You heard the challenge in the video, but just to recap...

- *Your neighborhood needs to get ready to welcome the migratory birds.*
- *They will need somewhere to nest, clean water and to be protected from noise and light pollution.*
- *But don't forget, humans need to live here too. Can you design a space that humans and birds can share?*

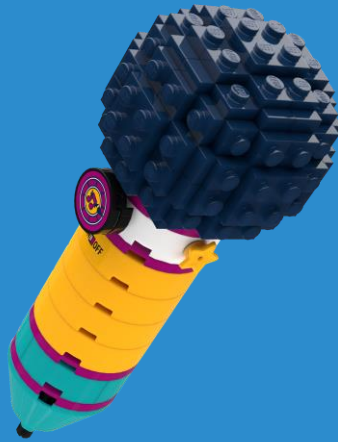
Encourage your class to express their ideas using any creative materials available, e.g.,:

- Crafting materials – build your solution from cardboard, paper, pipe cleaners, etc.
- Pen and paper – illustrate and explain your idea on paper.
- LEGO® bricks – build your solution from any bricks you have available.

If you like, you can use our printable ideas cards to let children write out an explanation of their idea/creation: http://www.LEGO.com/cdn/cs/sustainability/assets/blt05a1a38185a2557e/BtC_Idea_description_card.pdf

Time to share

What did you create?



TIME TO SHARE

If time allows, all groups can share within this session, or a separate follow-up session can be arranged to which VIP guests can be invited to be inspired by the children's ideas – a special "Showcase Day" event.

Teachers: Don't forget to upload photos and descriptions of your kids' ideas to our public galleries on LEGO.com, using the QR code on the last slide of this presentation.

Post-reflection Poll

[Link to online poll](#)

1



Definitely not.

2



Not really.

3



Not sure.

4



Yes.

5



Yes, for sure.

NOW, do you think you can help nature in the future?

ONLINE POLL

The same question asked at the beginning of the session, offering a chance to talk about whether more children feel they are able to help nature in the future.

Reflect on whether the students' feelings have changed during the course. If they have, how have they changed and why?

Direct link: <http://www.LEGO.com/sustainability/buildthechange/polls/hi-poll-3a?CMP=EMC-LCE>



From the Planet Earth and
everyone at the LEGO
Group and the Natural
History Museum, thank you
for building the change

**See you next
time!**

You did it! You ideated, designed, and created a solution to help birds on their migratory journeys.

The Build the Change team at the LEGO Group will now take your ideas and share them with people that can help make change happen – people like politicians, scientists, environmentalists and more!

Children will always be such role models – endless creativity and endless compassion for the world around you!

Well done!

Hey, Educators!

Upload your kids' awesome ideas!

Don't forget to send photos and descriptions of your class's creations to our galleries on LEGO.com!

Scan the QR code with a phone camera to get started.



Time to create...
...a neighborhood which
welcomes migrating birds.



Don't forget to upload your kids' creations to our gallery on LEGO.com!

Note: you will need to be signed with your LEGOID username and password to upload.

Just scan the QR code above with a phone camera to get started or use this URL:
[http://www.LEGO.com/sustainability/buildthechange/challenges/hi-challenge-3/upload?
CMP=EMC-LCE](http://www.LEGO.com/sustainability/buildthechange/challenges/hi-challenge-3/upload?CMP=EMC-LCE)

Images and descriptions will be moderated and put into this gallery:
[http://www.LEGO.com/sustainability/buildthechange/challenges/hi-challenge-3/gallery?
CMP=EMC-LCE](http://www.LEGO.com/sustainability/buildthechange/challenges/hi-challenge-3/gallery?CMP=EMC-LCE)