



ASSEMBLY PACK

TEACHER'S NOTES

GENERATION EARTHSHOT

SLIDE 1+2

This assembly/presentation is designed to introduce students to The Earthshot Prize and invite them to be a part of Generation Earthshot.

It is interactive and will take around 20 minutes. If you've only got 5 minutes, skip straight to the final slide.

OUR PLANET OUR HOME



SLIDE 3

Our planet is very beautiful.

- What are these photos showing?
- What do you think of when you see them?
- How do they make you feel?
- Our planet also sends us warnings.
- Can you think of challenges that these environments face?
- Do those challenges exist where you live?
- How does that make you feel?

This assembly is all about how we can protect and repair our home: Planet Earth.

QUIZ WHAT DO ALL THESE PEOPLE HAVE IN COMMON?



SLIDE 4

Quick Quiz!

- What do all these people have in common?
- Do you know who they are? Which ones do you recognise?
- Prince William, Her Majesty Queen Rania Al Abdullah, Cate Blanchett, Sir David Attenborough, Ernest Gibson, Hindou Oumarou Ibrahim, Indra Nooyi, Jack Ma, Luisa Neubauer, Naoko Yamazaki, Dr Ngozi Okonjo-Iweala, Yao Ming, Stella McCartney



SLIDE 5

They are all members of the Earthshot Prize Council!

But what is The Earthshot Prize? The Earthshot Prize is a global environmental prize to discover and scale the best solutions to help repair our planet over the next 10 years



SLIDE 6

The Earthshot Prize's challenge to the world is based on five 'Earthshots' – simple, yet ambitious and universal goals for 2030 which, if achieved, will improve life for us all.

Those goals are: Protect and restore nature;
Clean our air; Revive our oceans;
Build a waste-free world; Fix our climate.

Can you think of ways this is happening already?



SLIDE 7

There are already some amazing solutions out there. Winning solutions could come from anywhere in the world and will be awarded to those doing the most to repair our planet.

Five, one million-pound prizes will be awarded each year for the next 10 years, providing solutions to the world's greatest environmental problems by 2030.

- 5 prizes, every year for 10 years
How many solutions is that? (50)
- What if there are 5 finalists for every prize?
How many solutions is that? (250)
- What if there are 100 nominations for every prize?
How many solutions is that? (25,000!)
- How does that make you feel?



SLIDE 8

Finding solutions can help us overcome big challenges. They give us hope that we can achieve amazing things.

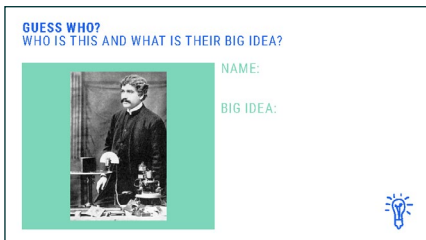
So maybe we should all spend some time coming up with more ideas to repair our planet...

- What is an idea?
- Who can have ideas?
- Is it always an object? An idea could be a new way of doing things, or a new way of thinking.
- It's time for a game Can you guess who these people are, and what their big idea was?

Display the images coming up one by one. Your students are going to guess who they are, and what their big idea was.

You could invite one student to the front and show them a sneak peak of the answer. They can then try to act out the big idea for their classmates.

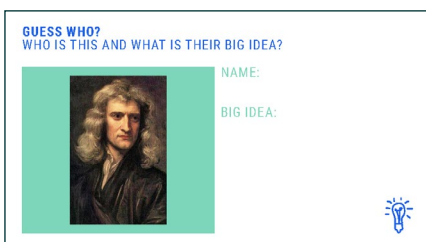
Some of the big ideas you might know about, some might be new.



SLIDE 9-10

Sir Jagadish Chandra Bose

- His big idea was wireless communication!
- He was the first person to demonstrate that we can communicate via radiowaves, laying the foundations for all wireless communication!
- Next time you call a friend, thank Sir Jagadish!
- India has also given the world many ancient inventions: yoga, chess, buttons for clothes, the ruler, shampoo, cotton and ink!



SLIDE 11-12

Isaac Newton



- He came up with the idea of gravity when an apple fell on his head!
- He realised that the same force that pulls falling objects to the ground is the same force that keeps the Moon moving around the Earth.



GUESS WHO?
WHO IS THIS AND WHAT IS THEIR BIG IDEA?

NAME:

BIG IDEA:

SLIDE 13-14

Katherine Johnson

- Her big ideas helped us explore space!
- Her calculations of the Earth's orbit while she was working for NASA helped send people into space for the first time.

GUESS WHO?
WHO IS THIS AND WHAT IS THEIR BIG IDEA?

NAME:

BIG IDEA:




SLIDE 15-16

Tim Berners Lee

- He came up with the idea of the World Wide Web! Even better, he gave it to the world for free.

GUESS WHO?
WHO IS THIS AND WHAT IS THEIR BIG IDEA?

NAME:

BIG IDEA:




SLIDE 17-18



Suzanne Simard

- Her big idea was the Wood Wide Web
- She discovered that trees secretly talk to each other underground! They're passing information and resources to and from each other through a network of fungi.
- Scientists call it the Wood Wide Web because 'adult' trees can share sugars to younger trees, and they can communicate with each other about dangers like insect infestations.

GUESS WHO?
WHO IS THIS AND WHAT IS THEIR BIG IDEA?

NAME:

BIG IDEA:

SLIDE 19-20

Louis Braille

- He was blind and came up with the idea for 'braille', a language for reading using your sense of touch, while he was still at school!
- His big idea has helped millions of people read – from books to street signs.



GUESS WHO?
WHO IS THIS AND WHAT IS THEIR BIG IDEA?

NAME:

BIG IDEA:




SLIDE 21-22


Boyan Slat

- Boyan's big idea has helped us clean up the ocean!
- When he was 16, Slat came across more plastic than fish while diving in Greece. He decided to devote a high school project for deeper investigation into ocean plastic pollution and later came up with the idea to use the oceans natural flow to catch plastic waste.
- After the news went viral, he started a non-profit company called Ocean Cleanup, and has raised millions of pounds to clean up the ocean.

GUESS WHO?
WHO IS THIS AND WHAT IS THEIR BIG IDEA?

NAME:

BIG IDEA:




SLIDE 23-24

William Kamkwamba

- He read a book which inspired him to build a wind turbine to power his family's house - using blue gum trees, bicycle parts, and materials collected in a local scrapyard!
- News spread and William became famous around the world. He was even featured in a Hollywood film called The Boy Who Harnessed The Wind.

GUESS WHO?
WHO IS THIS AND WHAT IS THEIR BIG IDEA?

NAMES:

BIG IDEA:




SLIDE 25-26

Melati and Isabel Wijsen

- When Melati was 12 and Isabel was 10 years old they came up with an idea to ban plastic bags, with a campaign called Bye Bye Plastic Bags.
- The campaign resulted in the government banning Styrofoam, plastic bags and straw from the island completely - and now more campaigns have started all over the world to do the same.



GUESS WHO?
WHO IS THIS AND WHAT IS THEIR BIG IDEA?



NAMES:

BIG IDEA:

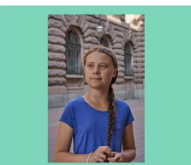


SLIDE 27-28

David Gathu and Moses Kinyua


- They both dropped out of university because they couldn't afford the fees, but this didn't stop them.
- Their big idea was to help disabled people by creating a robotic arm controlled by brain signals! So they taught themselves how and became famous around the world.
- Since then they've come up with lots of inventions for their community, including a COVID-19 disinfection machine.

GUESS WHO?
WHO IS THIS AND WHAT IS THEIR BIG IDEA?



NAME:

BIG IDEA:



SLIDE 29-30

Greta Thunberg

- Her big idea was a simple one. To make people in her community pay attention to climate change, she went on strike from school.
- At first she sat on her own, but over time she has inspired millions around the world and grown a global movement.
- All from one simple idea.

CAN YOU COME UP WITH BIG IDEAS?

SLIDE 31

So as you can see, ideas can take many forms!

- But are you creative? Have you ever been?
- Well according to research by NASA (the North American Space Agency) most children are creative geniuses!
- We lose these creative skills as we get older, because we don't practice them. But there are ways to practice these skills!
- If I told you that you could come up with hundreds of brilliant ideas, would you want to?



**GENERATION
EARTHSHOT**

SLIDE 32

Generation Earthshot is inviting you and others around the world to join in with the mission of The Earthshot Prize: to discover the best solutions to help repair our planet.

Using your natural creativity, you can come up with ideas to change the world!

Watch the Generation Earthshot video with your students.