

PRINTABLE SPEAKER'S NOTES for SESSION 1: A FUTURE WITHOUT WASTE - INTRODUCTION

Link to PDF classroom presentation:

http://www.LEGO.com/cdn/cs/sustainability/assets/bltf740c8cdf6c56c37/Session1_Introducing_AFWW.pdf

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

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Welcome the children to this Build the Change course exploring how we can all help design a better future to...

- Keep products and materials in use
- Eliminate waste and pollution
- Restore nature.

Welcome to Build the Change!

We all know you children have the best ideas and an amazing amount of creativity. That's why we think it's important to share topics like the one we'll be looking at today and get your perspective on how to make things better.

We know your ideas can change the world. They can influence important decisions. They can inspire people in positions of power to change. They can change our planet and our lives for the better!!!!

To start, let's hear from Leo and Linda about Build the Change and the role you will play!

The video is on the next slide.



Play the video, "Welcome to build the Change," at http://www.LEGO.com/cdn/cs/sustainability/assets/bltdac7ffc4cbe3bc11/welcome_to_BtC.mp4

Our Topic



A Future Without Waste **Designing things differently**

Today we are going to start exploring a really cool topic – one that is really important in helping people and the planet into the future.

The course is called A Future Without Waste – imagine that! Sounds good right? But why? And how are we going to get there?

The key is to start designing things differently to change the ways we take, make, use, and waste things right now.

One way to do this is by applying the principles of something called the circular economy. Don't worry if you've never heard of it – by the end of this, you will know what these two words mean together and you will be able to tell others what it means too!

It's something that can help the environment, help communities around the world and also help businesses be more environmentally and socially responsible. How cool is that?

Poll



I think they are impossible to solve.



I don't think we can solve them.



I'm unsure how to help.



I'm ready to support others.



I'm excited to help solve them.

How do you feel when you think about environmental problems?

Before we get going, let's ask ourselves a few questions with a little poll...

Link to the poll: <http://www.LEGO.com/sustainability/buildthechange/polls/poll-feelings?CMP=EMC-LCE>

Run through the question then ask the class to choose one number that represents how they feel; ask them to raise their hands when you call out that number.

Count the hands for each answer.

Once you've been through all the answers, enter the one with the most votes, then click through to reflect on how the group's answer compared to classrooms around the world.

Poll



1 Recycling.



2 Repair.



3 Regenerating nature.



4 Reusing resources.

Which of these environmental solutions have you heard of?

Next, take a look at this question.

Which of these environmental solutions have you heard of?

You should be able to click through to this next poll question at the end of the previous one but if you lose it, the direct link is here:

<http://www.LEGO.com/sustainability/buildthechange/polls/poll-solutions?CMP=EMC-LCE>

Don't worry about defining the words here. We will get to that later ;)

Awesome Words



Reuse



Recycle



Repair

Now it's time to introduce the class to some of the key words from the session.

To start, ask the children if they know any of these words and ask them to describe what they think it means.

OK class, which of these words do you recognize? Would anyone like to have a go telling us what they mean?

Reuse -----

This describes when we take something that has already been used once, and use it again, hopefully many more times.

Reuse means less waste because fewer things are thrown away. It has less impact on the environment than recycling, which itself uses some energy and creates waste.

It might be using the thing again in the same way OR using it again in a different way: E.g. The juice carton was perfect for holding my juice. Then I reused it as a plant holder for planting seeds.

Recycle -----

Recycling is the action or process of breaking waste down into reusable materials. Does anyone know something that is recycled?

Repair -----

This is where something that is broken is fixed so it can be used again. Have you ever repaired something?

Awesome Words



Economy



Product



**Natural
Resource**



Circular

It's our first session on this, so there are a few more words than usual. Let's have a look at these words too!

Economy -----

The economy is the system that we have of making and trading things of value.

The economy can be split into three things:

- *People/businesses making things*
- *People/businesses selling things*
- *People/businesses buying things*

If these three things work together well, then the country becomes wealthier as people have more money to buy things, and more things are made and sold to these people.

If they don't work well together, the country starts to struggle as people don't have the money to buy things, and that means businesses making things get less money so make less, and then less is sold.

Don't worry too much about this right now, we will explain the circular economy later in more detail.

Product -----

A product is anything that people need or want to buy.

Natural Resource -----

These are the natural things that Earth and its atmosphere provides us with that we can then use to make energy, products, and food.

Can anyone name a natural resource?

- Metals
- Minerals
- Wood
- Plants
- Coal
- Oil
- Water
- Wind
- Sun

Circular -----

This describes something that goes around in a circle and not, for example, a straight line. Remember the water cycle? That's circular. It goes round and round. If it didn't, we would soon run out of water! Yikes!



OK, it's time to hear more about what circular economy is and the problems it can address!

Play video >>>>

http://www.LEGO.com/cdn/cs/sustainability/assets/bltbc89249d0dcf633f/1_future_without_waste_EN.mp4



When you get to this slide, ask the children to reflect on what they have just heard.

This is an opportunity for them to absorb and digest all the information from the video they've just seen.

There are two ways you could facilitate this:

1. Print out a Build the Change Course Journal

http://www.LEGO.com/cdn/cs/sustainability/assets/blt752a44b5e2497010/course_journal_AFWW_digital.pdf for each child and have them write down in the box for this session 2 or 3 questions they have. The idea is that they should feel OK with not knowing or understanding everything. At the end of the course, you can encourage them to revisit these questions and see if they can now answer them.

OR

2. Ask the children to raise their hands with any thoughts or questions they have on what they heard in the video. Don't worry if you can't answer them. It's important for them to understand the answers will come, and they will be the ones to find them.





Before you reflect on the video, get the class standing up and active.

This activity is great at reinforcing the core concepts of a linear and circular way of doing things, and the benefits of a circular approach.

GROUP ACTIVITY: Round and Round

Materials needed: In line with the theme of repurposing and keeping things in use for longer, we encourage classes to reuse waste materials lying around in school or at home for these activities.

- A pile of fabrics, t-shirts, cloths
- Or anything else that can be passed quickly from child to child and thrown onto the ground/table at the end.

Time needed: 5 minutes

Part 1

1. Ask the class to stand up and form one long line.
2. Assign a child at one end of the line as the “start” of the process – where the resources are taken to make things.
3. Assign the child at the other end of the line as the “end” of the process – where resources/things become waste and are thrown into landfill.
4. Hand the first child the first “resource” (cloth, t-shirt etc) and ask them to pass it to the next person down the line and so on until the last child throws it onto the “landfill.”
5. Next, quickly hand another “resource” and another and make the children go quicker and quicker – giggling will ensue.
6. End this Part 1 by stopping and reflecting at the huge pile of “resources” in landfill.
7. Ask the children what the video they watched suggested as a solution? What does nature teach us? Make things more circular!

OK Let's try again, but this time, make it a circle.

Part 2

1. Ask the class to get into a huge circle.
2. Assign a child to be the “start” of the process.
3. Hand them a “resource” and tell them to pass it quickly along in one direction.
4. Once that is going, hand them another. And another.
5. Keep adding more in and tell them to pass along faster and faster – giggling will ensue again.
6. Ask them to stop and reflect on how it's different to the first linear exercise (nothing in landfill, everything being used again and again etc etc.)

Match them up



A Regenerate Nature.

B Eliminate Waste.

C Keep resources in use.

This is a quick and easy matching game. Ask the class which icon they think goes with which heading.

Answers:

A2
B3
C1



This is a fun little activity that introduces the concept of design as our most important tool for solving problems.

If more things were designed to be reused, redesigned, remade, repaired etc. we wouldn't need to keep taking resources from the earth and generating waste and pollution.

Materials needed: In line with the theme of repurposing and keeping things in use for longer, we encourage classes to reuse waste materials lying around in school or at home for these activities.

- Scrap pieces of paper or card for each child
- Pen/pencil for each child

1. Find scrap recyclable paper or card for each child
2. Ask them to safely cut ten shapes from their paper/card (squares, triangles, circles, rectangles are best)
3. Then give them all a pen and paper for making notes.

4. OK, they're ready for the challenge!
5. Do a big countdown to start, give regular updates during the activity and jump to the next "Time's Up" slide when it's finished.
6. Give them 5 minutes to arrange the shapes into as many household objects as they can. Each time they arrange the pieces into an object, they should note what they designed, then take the shapes apart and arrange into a new object.

The aim is to design as many things as possible in the 5 minutes.

E.g.:

1. Child arranges six of the shapes into a chair.
2. Notes down "chair" on their note paper.
3. Child scrambles up shapes and starts again.
4. Child arranges all ten shapes into a table.
5. Notes down "table" on their note paper.
6. Etc etc.

This activity can also be done with LEGO® bricks. Instead of cutting out ten shapes, children can instead choose ten LEGO elements from a pile. Be sure not to tell them the challenge until after they have chosen their LEGO elements ;)



Bring this up once the 5 minutes of “time to create” is up.

At the end, give them a chance to reflect on why it's useful for things to be designed so that they can be taken apart and used for something else.

This kind of design is key to making the world a bit more circular and less of a straight line, as they saw in the video.

Time to share



Show this slide while you give children a chance to share what they designed.

Once they're done with sharing, get them to gather for a wrap up quiz starting on the next slide...



It is the end of the session! Yay!! Well done everyone!

We'll be finishing up with a quick quiz on some of the things we learned today.

Quiz question 1

What is the circular economy?

- A** A new way to design, make and use things that's better for people and the planet.
- B** It describes a future where everything we make is circle-shaped (no more triangles or squares).
- C** It describes how we must continue to take things from the Earth.



You can have children shout out answers or fill in the quiz answers individually in the optional **Course Journal**

http://www.LEGO.com/cdn/cs/sustainability/assets/blt752a44b5e2497010/course_journal_AFWW_digital.pdf

Go to the next slide to see the correct answer.

Quiz question 1

What is the circular economy?

- A** A new way to design, make and use things that's better for people and the planet. ✓
- B** It describes a future where everything we make is circle-shaped (no more triangles or squares).
- C** It describes how we must continue to take things from the Earth.



Go to the next slide to see the next question.

Quiz question 2

Which of these isn't one of the three principles of the circular economy?

- A** Regenerating nature.
- B** Eliminating waste.
- C** Eating more vegetables.



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Quiz question 2

Which of these isn't one of the three principles of the circular economy?

- A Regenerating nature.
- B Eliminating waste.
- C Eating more vegetables. ✓



Quiz question 3

Which of the following is a renewable resource?

- A** Oil.
- B** Wind.
- C** Coal.



Quiz question 3

Which of the following is a renewable resource?

A Oil.

B Wind.

C Coal.



Quiz question 4

What can nature teach us about living better lives on planet Earth?

- A** We should do things in circles rather than in straight lines.
- B** We should all scurry around like ants.
- C** We should not be worried about waste and pollution.



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Quiz question 4

What can nature teach us about living better lives on planet Earth?

- A** We should do things in circles rather than in straight lines. ✓
- B** We should all scurry around like ants.
- C** We should not be worried about waste and pollution.





That's it for this session! Well done to all.

Next time, we will be looking at how eliminating waste and pollution can help people and planet. Exciting!

See you there!