

Event Pack	Think Outside the Bus – School Buses in the Circular Economy
Suggested length	60 minutes+
Suggested age group	7+
Summary	This workshop aims to get children thinking about the circular economy and ways things can be designed differently to better benefit both the planet AND people. Specifically, children will be hearing from the World Resources Institute's Electric School Bus Initiative and will be handed the steering wheel to reimagine how old diesel buses might be repurposed, as school districts adopt electric models instead...
Content	<p>The workshop is split into four distinct parts:</p> <p>Introduction</p> <ul style="list-style-type: none"> • Build the Change • Poll questions <p>Immerse</p> <ul style="list-style-type: none"> • Dive deeper into the main topic, the circular economy and electric school buses • Take the children through a series of poll questions and discussion points • Hear some case studies • Learn some awesome new words <p>Create</p> <ul style="list-style-type: none"> • Give children the main creative task – As school districts switch to electric school buses, how can they reuse old diesel school buses (i.e. the product) or their components for a new purpose? <p>Share</p> <ul style="list-style-type: none"> • Give the children an opportunity to share what they have created

NOTES FOR EVENT FACILITATOR:

- Please refer to speaker's notes on each slide for tips, info, and to ensure tone of presentation style is BtC-aligned.
- Videos are embedded in presentation and play automatically when clicking on the previous slide. (does not apply to PDFs)
- All images are ©The LEGO Group, licenced from Shutterstock or provided by WRI with permission for use in this workshop
- Enjoy!



In partnership with

Electric
School Bus
INITIATIVE



WORLD
RESOURCES
INSTITUTE

Build THE Change

Think Outside the Bus School Buses in the Circular Economy



Printable speakers notes

Introduction Video



English



Español



Poll

 [Link to online poll](#)

1



I don't have a role at all in protecting the planet.

2



I don't think I have much of a role.

3



I'm not sure.

4



I play a role in keeping the planet healthy.

5



I have a really important role in protecting the planet.

Do you think you have an important role in protecting the planet?

Poll

 [Link to online poll](#)



Disagree.



I'm not sure.



Agree.

I am already making a change.

Our Topic



Think Outside the Bus

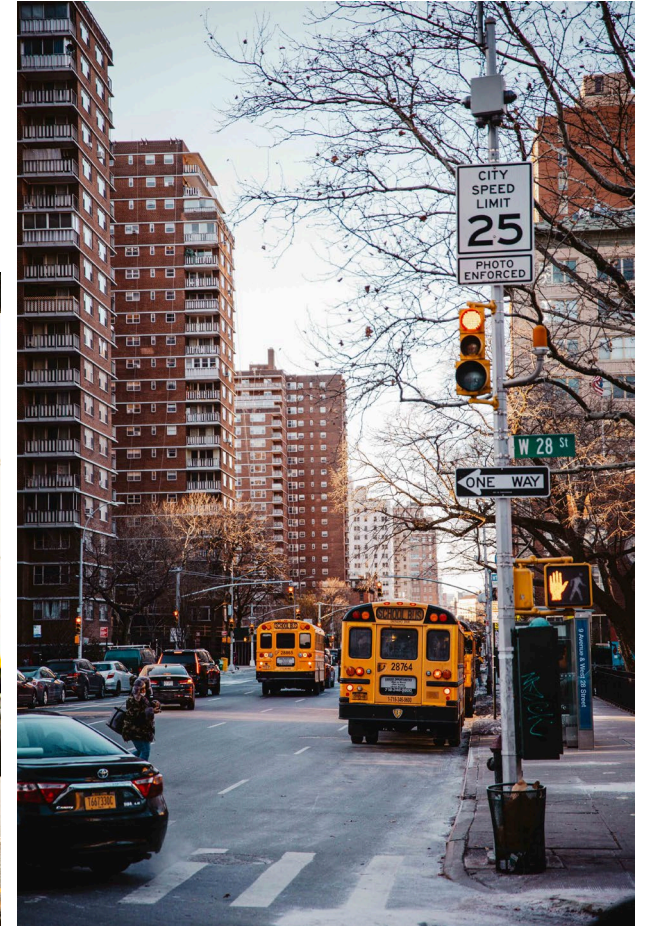
School Buses in the Circular Economy

Most U.S. school buses use harmful diesel fuel



Source: [School Bus Fleet](#), [WRI Analysis](#), [Atlas EV Hub](#)

While diesel exhaust pollution is dangerous for everyone, its impacts are not felt equally



Electric School buses offer a cleaner, healthier ride



Source: [WRI Analysis](#) & [WRI Analysis](#)

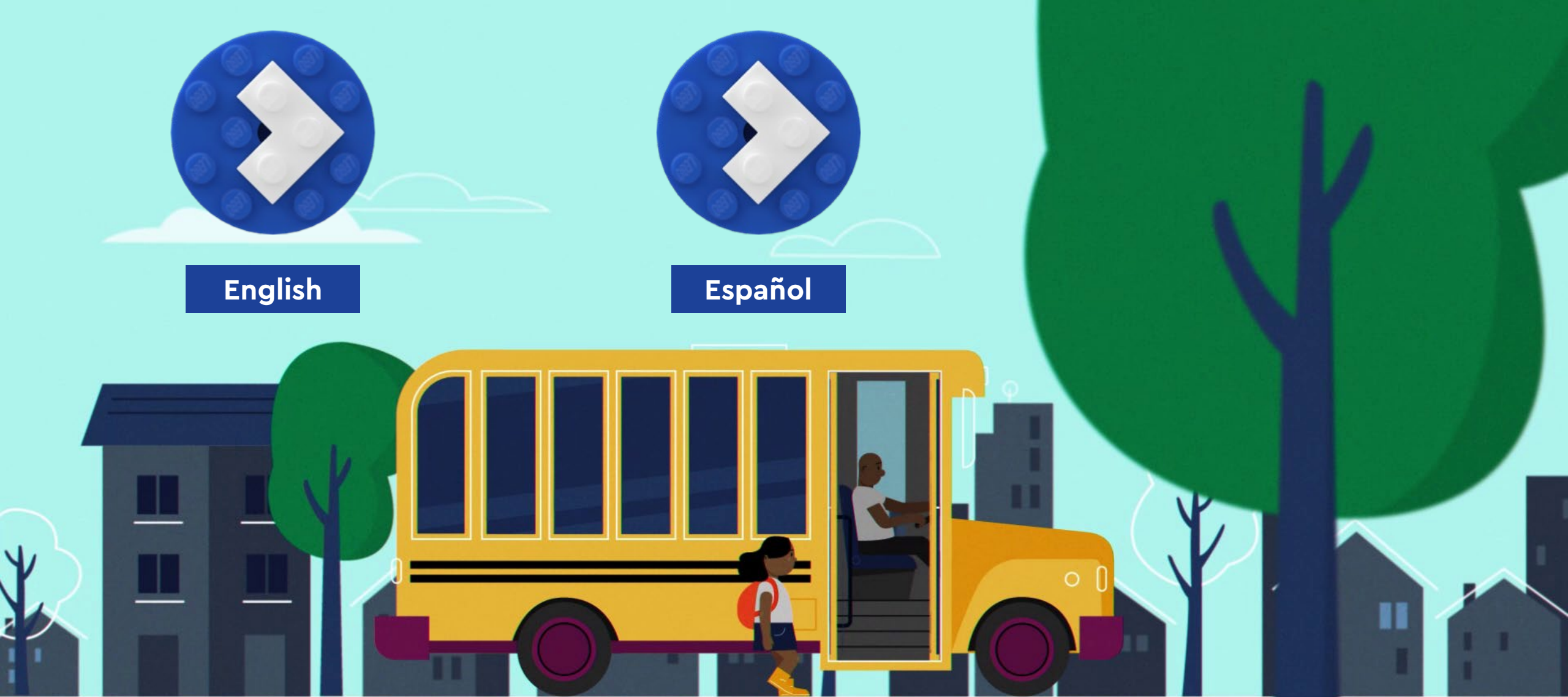
Main photo: Gilbert Rosas & Twin Rivers Unified School District



English



Español

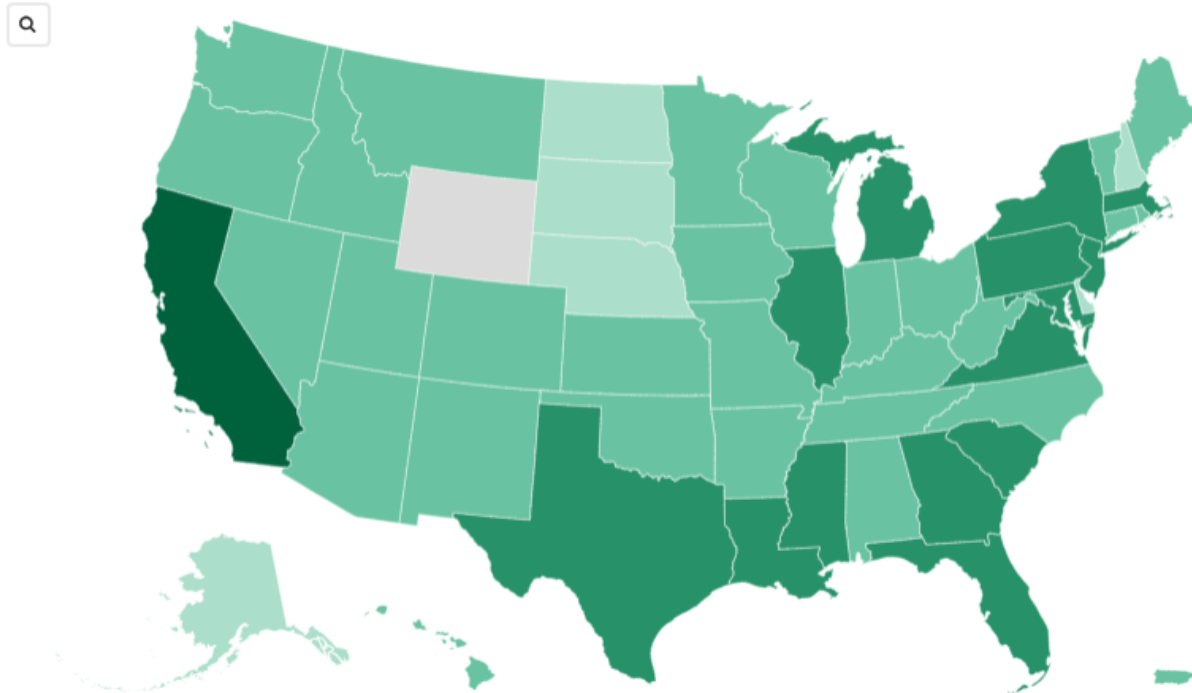


Electric School Bus Initiative Video

Electric school buses are on their way to schools across the country!

Committed* electric school buses by state

0 1-10 11-100 101-500 501+




Click here to find out which districts in your state have electric school buses – or will be getting them soon!

Source: [Lazer and Freehafer, 2023](#) - Data as of June 2023.

*awarded, ordered, delivered, or in operation.

Not shown: American Samoa (1 ESB), Guam (25 ESBs), and U.S. Virgin Islands (10 ESBs).

 WORLD RESOURCES INSTITUTE

Awesome Words



Reuse



Recycle



Repair



Repurpose

Awesome Words



Product



Component



Material

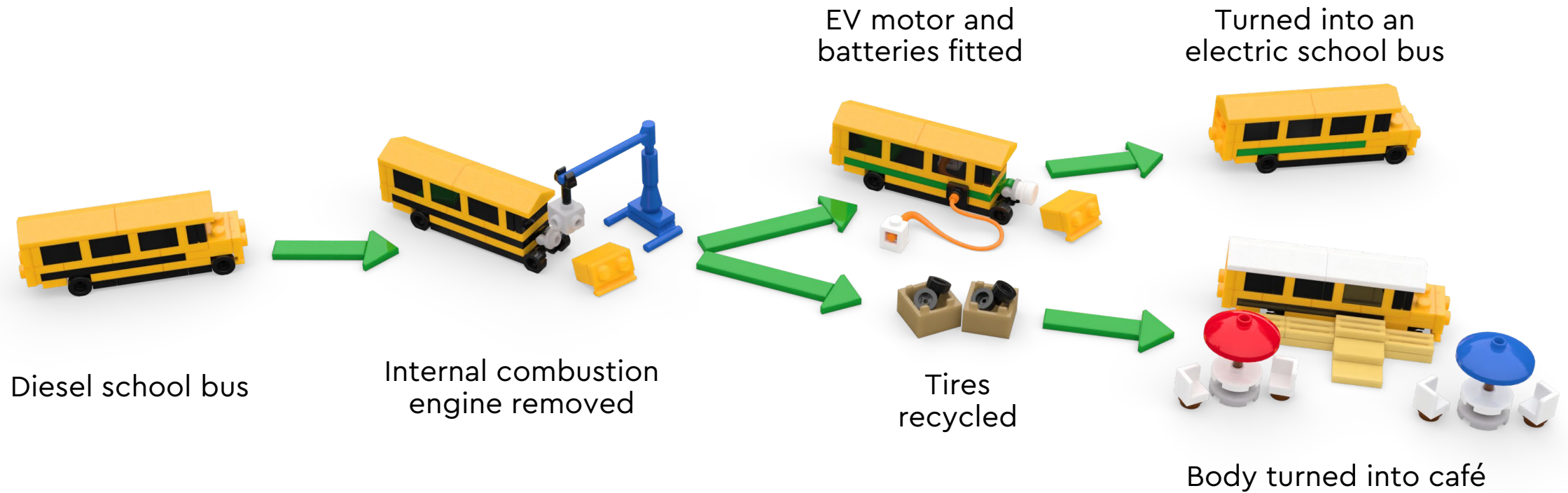


English



Español

Being part of the circle helps the planet



Diesel buses can be taken apart and reused or recycled

Discussion



What things have you observed that have been reused?

Discussion



How do you get to school?
What word comes to mind when you think of 'school bus'?

de CLIQUE

Netherlands





English



Español

Bus Repurposed

Knox, USA



Bus café

The Benefits



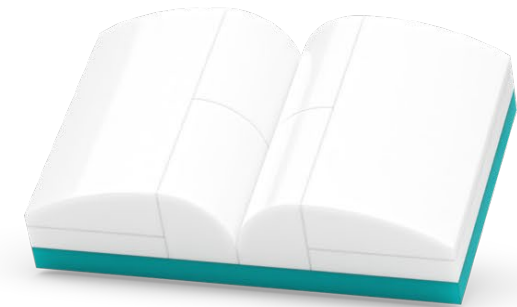
Waste reduction

Bus component parts do not end up in the landfill.



New purpose & value

The Knox County community has a new coffee shop!



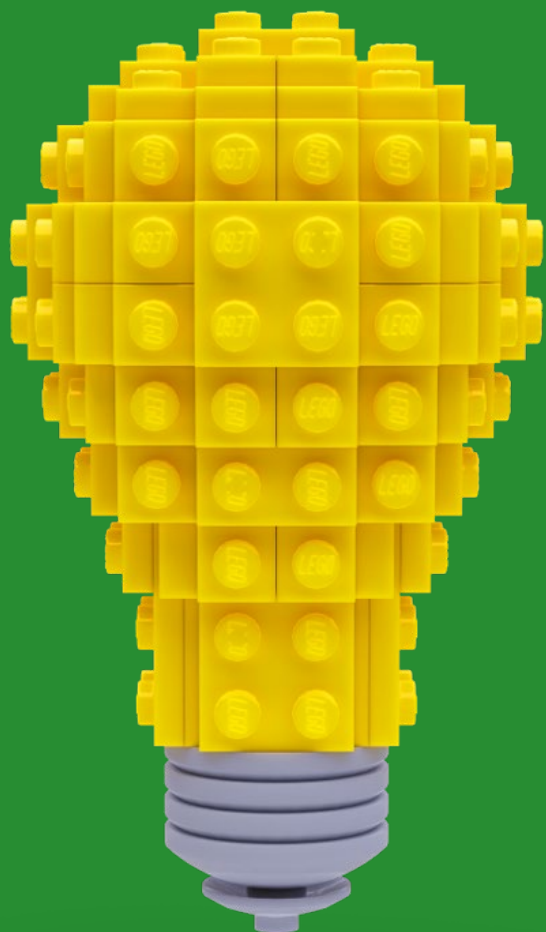
Education

Students learn entrepreneurship and business development.

Time to reflect

What stood out to you in those stories of change?





Time to create...

**a new use for old diesel
buses (or their
components) as they are
replaced with electric
buses?**



**Time's
up!**

Time to share





Time to Quiz

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.



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.



Quiz question 2

Which of these are examples of reusing something?

- A** Walking to school instead of driving.
- B** Putting a milk carton in the recycling bin.
- C** Mixing paint colors in old yogurt containers.



Quiz question 2

Which of these are examples of reusing something?

- A Walking to school instead of driving.
- B Putting a milk carton in the recycling bin.
- C Mixing paint colors in old yogurt containers.



Quiz question 3

How do electric school buses help people and nature?

- A** They have no tailpipe emissions, so kids on board have less exposure to pollution.
- B** They produce fewer greenhouse gas emissions.
- C** They're quieter!



Quiz question 3

How do electric school buses help people and nature?

A

They have no tailpipe emissions, so kids on board have less exposure to pollution.



B

They produce fewer greenhouse gas emissions.



C

They're quieter!



Poll

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Do you think you have an important role in protecting the planet?

Over to Us

**What can we
do to help?**

1. Recycle your milk carton and/or other containers at lunch.
2. Talk to your school cafeteria staff about how the school can reduce food waste.
3. Reduce your carbon footprint by asking your family if you can walk or bike to nearby locations.
4. Reuse things from home to make bird feeders and bird nest boxes.
5. Ask your school district if it has any electric school buses or is considering them.



From the Planet Earth and
everyone at the LEGO Group
and the World Resources
Institute, thank you for
building the change

**See you next
time!**

Hey, Educators!

Upload your kids' awesome ideas!

Don't forget to [upload](#) photos and descriptions of your class' creations to our [Thinking Outside the Bus gallery](#) on LEGO.com!

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



Think Outside the Bus
School Buses in the Circular
Economy



<https://www.lego.com/sustainability/buildthechange/challenges/bus/upload>

