

Augmented Reality poster activity

Leaders' notes:

The poster set features *The change makers of Lima* - a group of children and young people, who are driving change in communities across Peru's capital city.

The poster set uses Augmented Reality (AR). With the use of a tablet/smartphone, the posters appear to 'come to life', as they transition from photos into videos of each change maker. This is done through the use of Zappar, a free AR app.

Aim/ outcome:

To enjoy working with others while I learn and experience:

- how my life is similar to but also different from the lives of young people living overseas
- how I can be a change maker too
- why taking action on climate change is urgent and important

Time:

30-40 mins

Materials needed:

- Tablets/smartphones - one per team
- Poster set

Preparation required:

- Download Zappar from the App Store or Google Play
- Order a free poster set from the [CAFOD shop](#) or download and print from the [CAFOD website](#)

Curriculum links:

RE: Creation and stewardship

Science: Climate science

Geography: Climate, climate change, and sustainability

Citizenship: Rights and responsibilities of citizens



Introduction: Icebreaker

If time allows, start with a brief icebreaker activity.

Ask the young people to stand along a line, depending on whether they strongly agree, agree, disagree or strongly disagree with the following statements. (*Don't share the sources beforehand as they may sway how the young people respond*):

- “The decisions I make on a daily basis (eg. what I buy, eat, wear, etc.) affect people on the other side of the world.”
- “Climate change is the greatest threat facing humanity today.”
(Sir David Attenborough)
- “Climate breakdown is an issue of injustice.” [The world’s poor – and young – have done little to cause it but will face the most severe consequences.] (Christian Aid statement)
- “The destruction of the Earth is a crime. It should be prosecuted.”
(Polly Higgins, a barrister who has devoted her life to making ‘ecocide’ an international crime).
- “Going on strike for climate change is a good use of my time.”
(Greta Thunberg said: Why should I be studying for a future that soon will be no more? When no one is doing anything whatsoever to save that future? ...If a few children can get headlines all over the world just by not coming to school for a few weeks, imagine what we could all do together if you wanted to.)

Main input: The change makers of Lima

Using the information below, introduce the session:

Imagine London (or similar major city or town) running dry. What would happen if there was no water? How would you cope? How many different ways do you use water each day?

Having no water is a likely reality for the people of Lima.

Lima, Peru’s capital, is the second largest desert city in the world, after Cairo. Low sandy mountains close in around its outer fringes. A vibrant, bustling city, Lima also faces many challenges.

Families living in informal settlements often lack access to crucial services like water and safe spaces for children to play. Climate change is hitting Lima hard. The city is vulnerable to natural disasters like earthquakes and heavy rains, which can lead to landslides. Lima gets most of its water from the river Rímac and other smaller rivers with sources high in the Andes. But increased demand for water, as well as rising temperatures and melting glaciers, means that the city is running out of water. Predictions suggest that Lima could run out of drinking water in less than 20 years.

But *the change makers of Lima* are not sitting back. They are taking on these challenges, driving change in communities across the city.

Your challenge today is to work out what these change makers are doing, from clues you will find in the AR posters. Some are trickier than others!

Main activity: What's going on in the AR posters?

Display the posters around the room. Divide the group into teams and ask each team to come up with a team name. Give each team a quiz sheet to complete as they rotate around the posters. Ask them to use the Zappar app to scan each poster, to help them complete the quiz. Suggest that groups scan each poster once to see what happens, then read the questions, then scan once more to look for answers. No more than two scans per poster!

Plenary: How can we be change makers?

Come back together to see which team won. As you go through the answers to each round, ask a young person to read out the accompanying story below. Talk about which AR poster/story stood out most and why. Which change maker is most inspiring?

Recap the huge impact that climate change is already having on Lima, with predictions that the city could run out of drinking water in less than 20 years. Daniela is already having to fight for her water. Imagine how much worse things will get if we don't start to take action. This is our window of opportunity to change course. Encourage the group to become change makers today and join CAFOD's climate campaign.

Challenge the group to think about what else they could do as change makers. Here are some suggestions:

- Research and create their own AR poster to raise awareness about climate change
- Set up an exhibition on *The change makers of Lima* (for students and/or parents) to raise awareness. Order posters from the [CAFOD shop](#). This could also be done as a fundraiser.

Quiz sheet

Team name: _____

Round 1	Question	Answer (a, b or c?)
<p>Jasmin</p> 	<p>1. How many people (other than Jasmin) do you see as she walks to the park? a) two b) three c) four</p> <p>2. What challenge do you think is Jasmin is facing? a) difficulty finding other children to play with b) difficulty finding sports equipment to play with c) difficulty finding a safe space to play</p> <p>3. What colour is the parked car you can see, as Jasmin walks to the park? a) silver b) white c) black</p> <p>4. How do you think Jasmin has helped to change things? a) by clearing up the park to create a safe space to play b) by raising money to buy playground equipment c) by joining a youth club to make new friends</p>	
Round 2	Question	Answer (a, b or c?)
<p>Daniela</p> 	<p>1. What colour is Daniela's pen? a) black b) red c) blue</p> <p>2. What challenge do you think Daniela faces? a) her community has difficulty accessing water b) her community is far away from shops so they can't easily buy the essentials c) her local area doesn't have anywhere for people to play sport</p> <p>3. How many glasses (of different water quality) can you see on Daniela's sheet of paper? a) three b) five c) six</p> <p>4. How is Daniela helping to change things? a) by asking for sponsorship from her neighbours to pay for water b) by telling her neighbours about their rights to water c) by collecting information about her neighbours' access to use to campaign for better rights to water</p>	
Round 3	Question	Answer (a, b or c?)
<p>Jean-Pierre</p> 	<p>1. What does Jean-Pierre pass on his way to the garden? a) a cat b) a watering can c) a dog</p> <p>2. What challenge do you think Jean-Pierre faces? a) difficulty paying his school fees b) difficulty finding a safe space to do homework c) difficulty making friends to play with</p> <p>3. What colour is the gardening tool? a) blue b) red c) yellow</p> <p>4. How do you think Jean-Pierre is helping to change things? a) by going to homework club to keep up with his studies b) by learning how to care for the garden and grow plants c) by going to safe spaces and learning about his rights</p>	

Round 4	Question	Answer (a, b or c?)
<p>Abigail</p> 	<p>1. What colour is Abigail's front door? a) dark blue b) grey c) black</p> <p>2. What challenge do you think Abigail faces? a) plants aren't able to grow well in her local area b) the green space in her local area is under threat c) plants are expensive to buy in her local area</p> <p>3. What is on the poster attached to Abigail's house? a) a plant b) a fire extinguisher c) a footballer</p> <p>4. How is Abigail helping to change things? a) by joining an eco-brigade with her friends b) by planting small plants to protect her local green space c) by finding different ways to protect the environment</p>	
Round 5	Question	Answer (a, b or c?)
<p>Paolo</p> 	<p>1. How many different tools does Paolo use? a) three b) four c) five</p> <p>2. What challenge do you think Paolo faces? a) his community is far away from shops so they can't easily buy the essentials b) his local area doesn't have anywhere for people to play sport c) his community is at risk from natural disasters like earthquakes and landslides</p> <p>3. What do you see in the background behind Paolo as he walks up the stairs? a) a bicycle b) a washing line c) a small shop</p> <p>4. How is Paolo helping to change things? a) by learning to build stairs as part of an apprenticeship b) by volunteering his time to build stairs and improve his community c) by earning a living as a builder</p>	
Round 6	Question	Answer (a, b or c?)
<p>General</p>	<p>1. What does the global temperature rise need to be limited to, in order to avoid the worst effects of climate change? a) 1.5°C b) 2°C c) 2.5°C</p> <p>2. What is needed to limit the global temperature rise? a) Changes in government policy b) Changes in people's lifestyle c) Changes by businesses</p> <p>3. Why is CAFOD passionate about supporting young leaders? a) CAFOD has seen the big difference young leaders across the world can make b) CAFOD is inspired by young leaders around the world and knows that young people in the UK have the same ability to take the lead c) CAFOD wants to invest in both the present and future of our society - people who will champion for the poorest in our world and speak up for justice</p>	

Answer sheet

Round 1	Question	Answer (a, b or c?)
Jasmin 	1. How many people (other than Jasmin) do you see as she walks to the park? a) two b) three c) four	b) three
	2. What challenge do you think is Jasmin is facing? a) difficulty finding other children to play with b) difficulty finding sports equipment to play with c) difficulty finding a safe space to play	c) difficulty finding a safe space to play
	3. What colour is the parked car you can see, as Jasmin walks to the park? a) silver b) white c) black	c) black
	4. How do you think Jasmin has helped to change things? a) by clearing up the park to create a safe space to play b) by raising money to buy playground equipment c) by joining a youth club to make new friends	a) by clearing up the park to create a safe space to play
Round 2	Question	Answer (a, b or c?)
Daniela 	1. What colour is Daniela's pen? a) black b) red c) blue	c) blue
	2. What challenge do you think Daniela faces? a) her community has difficulty accessing water b) her community is far away from shops so they can't easily buy the essentials c) her local area doesn't have anywhere for people to play sport	a) her community has difficulty accessing water
	3. How many glasses (of different water quality) can you see on Daniela's sheet of paper? a) three b) five c) six	b) five
	4. How is Daniela helping to change things? a) by asking for sponsorship from her neighbours to pay for water b) by telling her neighbours about their rights to water c) by collecting information from her neighbours to use to campaign for better rights to water	c) by collecting information from her neighbours to use to campaign for better rights to water
Round 3	Question	Answer (a, b or c?)
Jean-Pierre 	1. What does Jean-Pierre pass on his way to the garden? a) a cat b) a watering can c) a dog	a) a dog
	2. What challenge do you think Jean-Pierre faces? a) difficulty paying his school fees b) difficulty finding a safe space to do homework c) difficulty making friends to play with	b) difficulty finding a safe space to do homework
	3. What colour is the gardening tool? a) blue b) red c) yellow	c) yellow
	4. How do you think Jean-Pierre is helping to change things? a) by going to homework club to keep up with his studies b) by learning how to care for the garden and grow plants c) by going to safe spaces and learning about his rights	a, b and c - all three answers are correct (all answers are needed)

Round 4	Question	Answer (a, b or c?)
Abigail 	1. What colour is Abigail's front door? a) dark blue b) grey c) black	c) black
	2. What challenge do you think Abigail faces? a) plants aren't able to grow well in her local area b) the green space in her local area is under threat c) plants are expensive to buy in her local area	b) the green space in her local area is under threat
	3. What is on the poster attached to Abigail's house? a) a plant b) a fire extinguisher c) a footballer	b) a fire extinguisher
	4. How is Abigail helping to change things? a) by joining an eco-brigade with her friends b) by planting small plants to protect her local green space c) by finding different ways to protect the environment	a, b and c - all three answers are correct (all answers are needed)
Round 5	Question	Answer (a, b or c?)
Paolo 	1. How many different tools does Paolo use? a) three b) four c) five	a) three
	2. What challenge do you think Paolo faces? a) his community is far away from shops so they can't easily buy the essentials b) his local area doesn't have anywhere for people to play sport c) his community is at risk from natural disasters like earthquakes and landslides	c) his community is at risk from natural disasters like earthquakes and landslides
	3. What do you see in the background behind Paolo as he walks up the stairs? a) a bicycle b) a washing line c) a small shop	b) a washing line
	4. How is Paolo helping to change things? a) by learning to build stairs as part of an apprenticeship b) by volunteering his time to build stairs and improve his community c) by earning a living as a builder	b) by volunteering his time to build stairs and improve his community
Round 6	Question	Answer (a, b or c?)
General	1. What does the global temperature rise need to be limited to, in order to avoid the worst effects of climate change? a) 1.5°C b) 2°C c) 2.5°C	a) 1.5°C
	2. What is needed to limit the global temperature rise? a) Changes in government policy b) Changes in people's lifestyle c) Changes from businesses	a, b and c - all three answers are correct
	3. Why is CAFOD passionate about supporting young leaders? a) CAFOD has seen the big difference young leaders across the world can make b) CAFOD is inspired by young leaders around the world and knows that young people in the UK have the same ability to take the lead c) CAFOD wants to invest in both the present and future of our society - people who will champion for the poorest in our world and speak up for justice	a, b and c - all three answers are correct

Accompanying stories: *The change makers of Lima*

Once the teams have completed all the rounds, ask them to swap their answer sheets with another team to score.

As you go through the answers to each round, ask a young person to read aloud the accompanying story (see below).

Daniela - Fighting for water

What does Daniela like to do in her spare time?

Daniela enjoys taking photos and playing cards. In the poster, you can see Daniela, (in the middle), taking a selfie with her friends Matilda (to the left) and Gabriel (to the right).



What's the problem?

Daniela lives in La Capilla, an informal settlement in one of the poorest districts in Lima. Many residents here lack basic human rights.

Water is a major problem. Daniela has never had running water at home. Water is delivered by trucks, but sometimes the trucks don't come, which means there is no water. And after heavy rain, the water trucks struggle to make it up the steep hillsides. When the trucks do come, the water is stored in tanks that are open to the dust and dirt. Water is therefore extremely poor quality.

Daniela says: *"You don't really know when the water will arrive... Like everybody we feel uncomfortable when water doesn't come. We need water for everything - to wash, to cook, everything"*.

How is CAFOD helping?

CAFOD is supporting local experts (from CAFOD partner, DESCO) to help young people in their fight for water, amongst other things.

What's the solution?

DESCO have developed a mobile app, to collect information from residents about their access to and quality of water. The information they collect will be presented to Congress (parliament) and used as evidence to campaign for better rights/ access to water.

Daniela and her friends have been trained to use this app. They are going to their neighbours' houses to collect this information on their phones, to use in their fight for water.

Paolo - Building the future

What does Paolo like to do in his spare time?

Paolo loves to skate and play football. His favourite football team is Peru.



What's the problem?

Like Daniela, Paolo also lives in La Capilla, an informal settlement in one of the poorest districts in Lima. Many residents here lack basic human rights.

As well as problems accessing water, the majority of the houses are built using precarious materials (eg mats, wood laminates, corrugated roofs). They are situated on the extremely steep slopes over self-built stone platforms known as 'pircas'. This makes them extremely vulnerable, especially as they are already at risk from natural disasters and climate change eg. flooding and earthquakes and landslides.

How is CAFOD helping?

CAFOD is supporting local climate change experts (from CAFOD partner, DESCO) to raise awareness and help young people develop their skills to reduce the risks from climate change.

Paolo's community is well organised - they are already making improvements to their neighbourhood, and DESCO is supporting them to further reduce their risks from climate change.

What's the solution?

Along with others in the neighbourhood, Paolo volunteers to do community service every Sunday, to help improve his neighbourhood and make it a safer place to live. Paolo says: *"For me, community service is really important. It's something that you do to improve your community to help it to grow and develop"*.

Paolo is volunteering to build staircases. The paths in his community are very steep. So, without staircases, it is difficult for people to move around. If there is a fire or a natural disaster like an earthquake or landslide, the staircases help people move down the hills quickly to safety.

Paolo and his neighbours are also building retention walls to protect people from land or mud slides.

Jean-Pierre - Planting the seeds

What does Jean-Pierre like to do in his spare time?

Jean-Pierre likes to read books and wants to be a teacher when he grows up. His favourite books are about super heroes.



What's the problem?

Jean-Pierre lives in an area of northern Lima with high levels of poverty (in the same area as Jasmin). There aren't many safe places for children, and parents often have to work long days, leaving children alone. Because of this, sometimes children miss school and fall behind in their studies.

How is CAFOD helping?

CAFOD is supporting local experts (from CAFOD partner, Warmi Huasi) to help the children in Jean-Pierre's neighbourhood. As well as helping to strengthen local children's organisations, they are helping to create vital safe spaces for children.

What's the solution?

Warmi Huasi have created eight safe spaces, including homework clubs, reading clubs, a wellbeing club and a play club.

Jean-Pierre enjoys going to these safe spaces. He goes to both reading club and homework club - here Jean-Pierre can do his homework and keep up with his studies. Jean-Pierre wants to be teacher when he grows up. He says: *"When I'm in the homework club I feel good, I feel happy"*.

At homework club, the children also learn about their rights, play games and do other activities like learning how to grow plants, which Jean-Pierre really enjoys. The children in the club made signs to show how to care for their garden (which can be seen in Jean-Pierre's poster).

Jean-Pierre says: *"I like to water the plants so that they grow. Without plants we can't breathe"*.

Abigail - Defending the earth

What does Abigail like to do in her spare time?

Abigail belongs to an eco-brigade at her school. She enjoys caring for the environment. Abigail also likes to draw and wants to be a graphic designer when she grows up.



What's the problem?

Abigail lives in the Lomas de Carabayllo, a mountainous district towards the north of Lima, with high levels of poverty. It is also one of the most polluted districts of northern Lima. It suffers from illegal dumping of waste and lots of mining (much of which is illegal).

The area is blessed with a unique urban ecosystem, the Lomas de la Primavera (the Lomas). It is a chain of mountains known as Lima's "green lung". As a hyper-arid city, the hills of the Lomas benefit from mist coming up from the Pacific coast, which nurtures vegetation and natural life.

Despite its ecological and archeological importance (pre-Incan artifacts have been found), the Lomas is under threat. People are grabbing the land to sell, and mining companies want to start mining there.

How is CAFOD helping?

CAFOD is supporting local climate change experts (from CAFOD partner, CIDAP) to work with different communities in the district, focusing on reducing risks from climate-related disasters as well as conservation of the Lomas.

In a new project they have supported four local schools to set up eco-brigades.

What's the solution?

Abigail has joined one of these eco-brigades to help defend the earth. They have started working on a forestation project in the Lomas, planting small plants to protect the environment and keep it clean for the future.

Abigail says: *"It's important to protect the Lomas because they give us our oxygen, they help our wellbeing and help our planet"*.

The eco-brigade are taking on the challenge of tackling climate change by defending their green spaces, and finding other ways to protect the environment. They have just started clearing an area at school so they can create a garden.

Jasmin - Creating space to play

What does Jasmin like to do in her spare time?

Jasmin loves to play sport, especially football and volleyball. Her favourite footballer is Paolo Guerrero, who plays for Peru.



What's the problem?

Jasmin lives in an area of northern Lima with high levels of poverty (in the same area as Jean-Pierre). There is lots of violence and few public parks and safe places for children to play.

How is CAFOD helping?

CAFOD is supporting local experts (from CAFOD partner, Warmi Huasi) to help the children in Jasmin's neighbourhood. They are helping to create safe spaces and to strengthen local children's organisations. These organisations help children understand their rights, voice their needs and influence local public policies, thereby improving their lives and their community.

What's the solution?

Jasmin belongs to one of these local children's groups, which is helping to improve her community.

Together they have created a children's park to play in, called the Labyrinth. Jasmin and her friends helped to clear up rubbish and plant seeds in the park. Now they have a lovely safe area to play, with a maze, a playground and space to play football and other games.

Jasmin says: "I like most of all to come here and play football and volleyball. I don't like the violence in my neighbourhood. At the Labyrinth I feel happy and I feel free".