

NOTES ON THE WORLD'S LARGEST LESSON VIDEO

- 1 What are the three main things we all need to survive?

- 2 List four big problems in the world at the moment.

- 3 What is the name of the organisation working across 193 countries to tackle peace and climate change?

- 4 How many Global Goals for Sustainable Development are there?

- 5 What year are we hoping to achieve the Global Goals?

- 6 Give a few ideas of how you can help reach the targets set for the Global Goals.

WORLD FACTS AND GLOBAL GOALS

Match the symbol for each Global Goal to its world facts and one of its targets



WORLD FACTS	GLOBAL GOALS SYMBOL	GLOBAL GOAL TARGET
<p>One in five people in the world does not have access to electricity.</p> <p>3 billion people rely on wood, coal, charcoal or animal waste for cooking and heating.</p>		<p>By 2030, to ensure all people in the world have access to safe and affordable drinking water and sanitation services.</p>
<p>Half of the world's population – 3.5 billion people lives in cities today.</p> <p>828 million people live in slums today and the number keeps rising.</p>		<p>By 2030, to ensure everyone in the world can access affordable, reliable and modern energy services.</p>
<p>Globally, one in nine people in the world today (795 million) are undernourished.</p> <p>66 million primary school-age children attend classes hungry across the developing world.</p>		<p>By 2030, to ensure all people are well prepared for hazards related to climate change and natural disasters.</p>
<p>Climate change is now affecting every country on every continent.</p> <p>Global emissions of carbon dioxide (CO2) have increased by almost 50 per cent since 1990.</p>		<p>By 2030, to ensure that all people have access to adequate, safe and affordable housing, to upgrade slums and provide access to safe, affordable, and sustainable transport systems.</p>
<p>663 million people in the world don't have access to clean drinking water.</p> <p>2.4 billion people in the world don't have access to basic sanitation services, such as toilets.</p>		<p>By 2030, to end hunger, meaning everyone in the world including people living in extreme poverty has access to enough safe, nutritious food all year round.</p>



CAN TECHNOLOGY HELP?

- 1 Add your Global Goal symbol and target into the spaces below.

Global Goal symbol

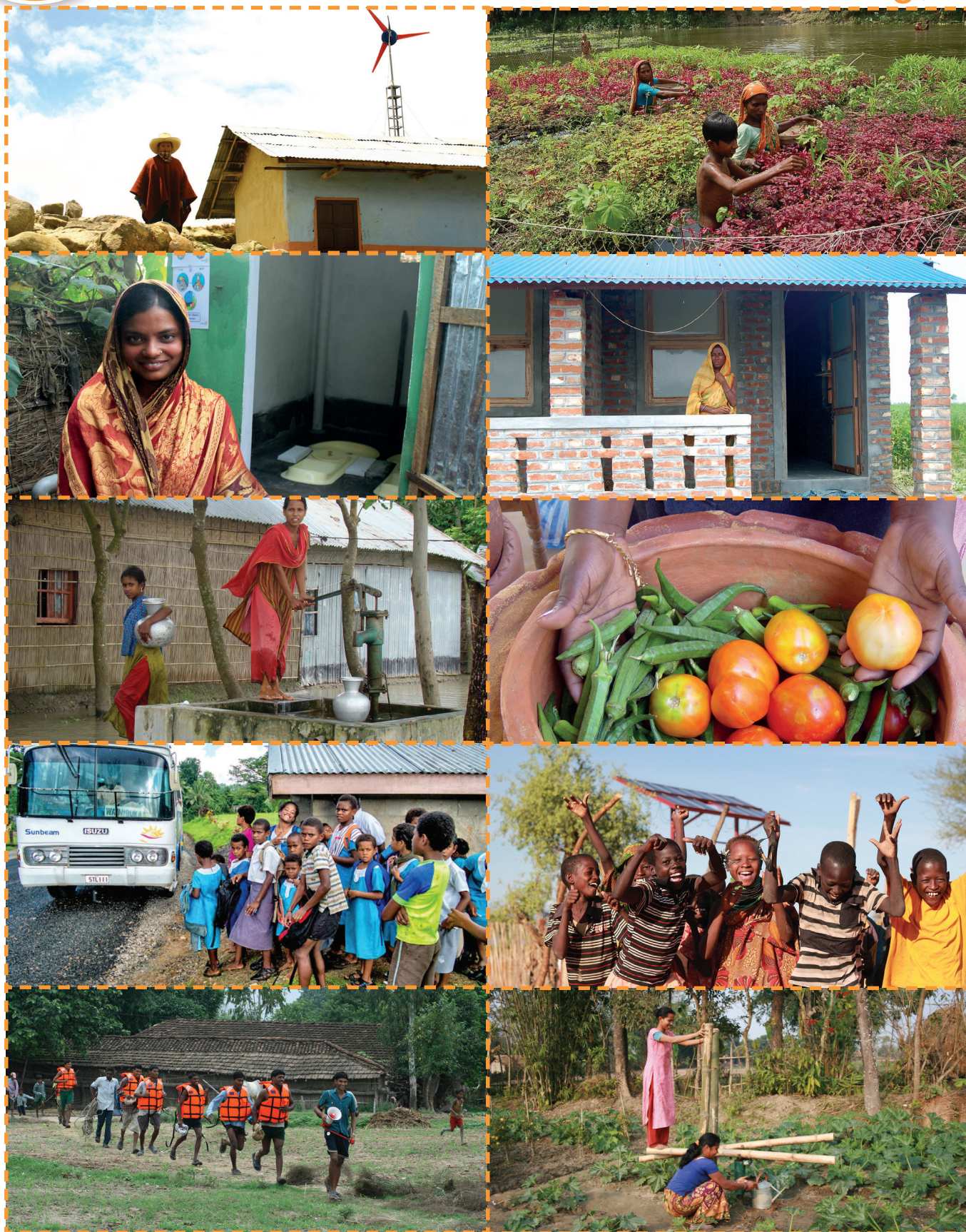
Target for 2030

- 2 Stick two pictures of technologies that could help reach your Global Goal target in the space below.

Around the pictures write down why you feel these technologies can help reach your Global Goal.

GLOBAL GOALS: TECHNOLOGY SOLUTIONS?

Select two pictures of technologies that you think might help reach your Global Goal targets.



RESEARCH

Put a ring around the Global Goal you are exploring?



Write down one of the targets linked to your Global Goal.

EXISTING TECHNOLOGIES

Explore **at least one** technology that has been developed to help reach the targets for the Global Goal you are exploring.

Record your research findings. Feel free to include pictures.



Name

Age

RESEARCH FINDINGS



Name

Age

DESIGN IDEAS

List the main specification points your design will address:

Develop a range of design ideas and annotate them with their advantages and disadvantages.



THE GLOBAL GOALS
For Sustainable Development

practicalaction.org/design-for-a-better-world





Name

Age

FINAL IDEA

Present a final design that includes annotations about how the technology works and will help reach your Global Goal targets:



THE GLOBAL GOALS
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PRACTICAL ACTION
Technology challenging poverty



GLOBAL GOAL 2 ZERO HUNGER



World facts

- Globally, one in nine people in the world today (795 million) are undernourished.
- 66 million primary school-age children attend classes hungry across the developing world.

Target

By 2030, to end hunger, meaning everyone in the world including people living in extreme poverty have access to enough safe, nutritious food all year round.

To find out more about the other targets for Global Goal 2 go to un.org/sustainabledevelopment/hunger

Your task

Imagine you are a designer and that you have been tasked to develop an idea for a technology or product that can help reduce malnutrition and hunger in the world by 2030.

Getting started

You might have your own ideas... but here are some questions to get you thinking.

Which technologies are useful to help people:

- grow enough food in countries affected by drought and/or flooding?
- process and store food after its harvested to last for longer?
- cook food in a way that doesn't use too much fuel?

Useful sites

Food and agriculture case studies practicalaction.org/food-and-agriculture

Videos clips practicalaction.org/videos-food-agriculture

Technical information on food processing

answers.practicalaction.org/our-resources/community/food-processing-1-2

GLOBAL GOAL 6

CLEAN WATER AND SANITATION

6 CLEAN WATER AND SANITATION



World facts

- 663 million people in the world don't have access to clean drinking water.
- 2.4 billion people in the world don't have access to basic sanitation services, such as toilets.

Target

By 2030 to ensure all people in the world have access to safe and affordable drinking water and sanitation services.

To find out more about the other targets for Global Goal 6 go to un.org/sustainabledevelopment/water-and-sanitation

Your task

Imagine you are a designer and that you have been tasked to develop an idea for a technology or product that can help people in the world to access to clean drinking water and sanitation services by 2030.

Getting started

You might have your own ideas... but here are some questions to get you thinking.

Which technologies help people to:

- Collect water?
- Clean water so that it's safe enough to drink?
- Transport and store water to keep it clean?
- Encourage hygiene when water is limited?
- Develop toilets that don't use water?

Useful sites

Water and sanitation case studies practicalaction.org/urban-water-sanitation-waste

Video clips practicalaction.org/videos-water-sanitation

Technical information on water and sanitation technologies

answers.practicalaction.org/our-resources/community/water-and-sanitation-1-2

GLOBAL GOAL 7

AFFORDABLE AND CLEAN ENERGY

7 AFFORDABLE AND CLEAN ENERGY



World facts

- One in five people in the world does not have access to electricity.
- 3 billion people rely on wood, coal, charcoal or animal waste for cooking and heating.

Target

By 2030, to ensure everyone in the world can access to affordable, reliable and modern energy services.

To find out more about the other targets for Global Goal 7 go to un.org/sustainabledevelopment/energy

Your task

Imagine you are a designer and that you have been tasked to develop an idea for a technology or product that can help people in the world access affordable and sustainable energy by 2030.

Getting started

You might have your own ideas... but here are some questions to get you thinking.

Which technologies could help people to:

- Generate electricity in rural areas where there is no national grid access to electricity?
- Develop a cook stove that reduces the amount of wood or charcoal needed?
- Light their homes so that children can do homework in the evening?

Useful sites

Renewable energy case studies practicalaction.org/energy

Video clips practicalaction.org/videos-energy

Energy solutions information

answers.practicalaction.org/our-resources/community/energy-6



GLOBAL GOAL 11

SUSTAINABLE CITIES AND COMMUNITIES

11 SUSTAINABLE CITIES AND COMMUNITIES



World facts

- Half of the world's population – 3.5 billion people – live in cities today.
- 828 million people live in slums today and the number keeps rising.

Target

By 2030, to ensure that all people have access to adequate, safe and affordable housing, to upgrade slums and provide access to safe, affordable, and sustainable transport systems.

To find out more about the other facts and targets for Global Goal 11 go to

un.org/sustainabledevelopment/cities

Your task

Imagine you're a designer who has been tasked to develop new ideas for technologies or products that can help people in the world live in safe and sustainable cities by 2030.

Getting started

You might have your own ideas... but here are some questions to get you thinking.

Can you think of ideas for technologies that can help people to:

- Live in affordable and safe houses?
- Use affordable and sustainable transport systems?
- Reduce the amount of energy consumption in cities?
- Deal with 'waste' materials in a way that's best for people and the environment?

Useful sites

Urban water and waste case studies practicalaction.org/urban-water-sanitation-waste

Technical information construction answers.practicalaction.org/our-resources/community/construction-6

Technical information transport answers.practicalaction.org/our-resources/community/transport.



GLOBAL GOAL 13 CLIMATE ACTION



World facts

- Climate change is now affecting every country on every continent.
- Global emissions of carbon dioxide (CO²) have increased by almost 50 per cent since 1990.

Target

By 2030 to ensure all people are well prepared for hazards related to climate change and natural disasters.

To find out more about other facts and targets for Global Goal 13 go to un.org/sustainabledevelopment/climate-change-2

Your task

Imagine you are a designer who has been tasked to develop a technology or product that can help people in the world either to:

- a) Prepare for the hazards related to climate change and natural disasters.
- b) Reduce the environmental impact of the resources they use.

Getting started

You might have your own ideas... but here are some questions to get you thinking.

Which technologies could help people to:

- Grow crops in areas that are increasingly hit by natural disasters (especially flooding or drought)?
- Prepare themselves and their homes from the risks of flooding?
- Reduce their personal use of world resources including energy, water and materials?
- Reuse materials in a way to reduce environmental impact of the planet?

Useful websites

Climate change case studies practicalaction.org/climate-change

Video clips practicalaction.org/videos-climate-change

Technical information on disaster Risk Reduction answers.practicalaction.org/our-resources/community/disaster-response-mitigation-and-reconstruction