

Sustainable Development Goals for Pupils

#2 ZERO HUNGER



Imprint

Published by:

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Design and layout: Eco Logic

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This curriculum is part of the Erasmus+ project Sustainable Development Goals for Pupils

Co-funded by the Erasmus+ Programme of the European Union:



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Sustainable Development Goals for Pupils



Activity #1	Title of the activity
Sustainable Development Goal 2	Food Systems Exploration Challenge
Objectives of the activity	
<p>To raise awareness about global food systems and the importance of achieving zero hunger while promoting critical thinking and problem-solving skills.</p> <p>By engaging students in this activity, they will gain a better understanding of the complexities of global food systems and develop a sense of responsibility towards addressing hunger and promoting sustainable practices.</p>	
Details for the activity	
<ul style="list-style-type: none"> - Material – World map or globe; Pictures or cards representing various food items (e.g., fruits, vegetables, grains, dairy products, meat); Large sheets of paper or a whiteboard; Markers or colored pens; Sticky notes or index cards - Duration – 70 minutes - Group number – 15 - 20 students aged 10-14 (divided into few groups) 	
Instructions for teachers	
<p>Introduction (10 minutes):</p> <p>Begin by introducing SDG 2: Zero Hunger. Explain its importance and why achieving zero hunger is a global priority (Information for this part can be found in the Theoretical Part of the lesson plan. If the teacher wishes the information can be done in a form of a PowerPoint presentation).</p> <p>Discuss the concept of food systems, including production, distribution, consumption, and waste.</p> <p>Show the world map or globe and highlight different regions known for specific food production or challenges related to hunger. You can also ask the students for their previous knowledge about this topic. Here are some ideas:</p> <ol style="list-style-type: none"> 1. Which region is known as the "breadbasket" of a country/continent due to its significant grain production? 2. Name a region that is famous for its production of tropical fruits like bananas and pineapples. 3. Which region faces challenges in food production due to desertification and water scarcity? 4. Identify a region known for its high-quality olive oil production. 5. Which region is known for its extensive rice cultivation and is often called the "Rice Bowl" of a country/continent? 6. Name a region that faces food security challenges due to frequent droughts and crop failures. 7. Identify a region that specializes in the production of dairy products, such as cheese and milk. 8. Which region is known for its coffee production and is often referred to as the "coffee belt"? 9. Name a region where fishing and seafood production play a vital role in the local economy and food supply. 10. Identify a region that faces challenges in food production due to deforestation and unsustainable agricultural practices. 	

The questions can be modified depending on the age and previous knowledge of the students.

Main Part (55 minutes)

Food System Investigation (25 minutes):

Divide the class into small groups and provide each group with a set of food item pictures or cards.

Ask the groups to research and discuss the following questions related to their assigned food item:

Where is this food item primarily grown or produced?

What challenges or issues are faced in its production or distribution?

How does this food item contribute to nutrition and food security?

Instruct the groups to record their findings on large sheets of paper or whiteboard.

Gallery Walk (15 minutes):

Display sheets of paper or whiteboard around the classroom.

Give each student a few sticky notes or index cards.

Ask students to walk around the room, read the information on each sheet, and write down at least one new thing they learned or a question they have on the sticky notes.

Encourage students to leave their sticky notes on the corresponding sheets.

Discussion and Reflection (15 minutes):

Gather the students in a circle and facilitate a discussion based on the sticky notes and questions.

Encourage students to share their new knowledge, raise additional questions, and engage in a dialogue about food systems and zero hunger.

Discuss potential actions that can be taken at individual, community, and global levels to work towards achieving zero hunger.

Conclusion (5 minutes):

Summarize the main points discussed during the activity.

Reinforce the importance of sustainable food systems and individual contributions to achieving SDG 2.

Invite students to think about ways they can personally contribute to zero hunger, both now and in the future.

Homework project assignment examples :

1. Ask students to write short stories or create comics that illustrate the journey of a child or family facing hunger and how they overcome food insecurity through sustainable practices and community support.

2. Introduce the concept of a balanced diet using the "My Plate" model. Have students create their own balanced meal plans for a day, considering the five food groups. Discuss the importance of a varied diet for good nutrition and well-being.

3. Provide maps of different regions or countries and ask students to mark areas with high levels of hunger and malnutrition. Discuss the reasons behind these challenges and brainstorm possible solutions to address food insecurity in those areas.

4. Ask students to design a sustainable and nutritious lunchbox menu using locally sourced, seasonal ingredients. Students can share their ideas, and the class can vote on the most innovative and sustainable lunchbox plan.

5. Organize a food drive within the classroom or school. Set a goal for the total number of non-perishable food items to be collected. Students can bring in items to contribute, and the class can track the progress on a chart. Once the goal is reached, donate the collected food to a local food bank or community organization supporting those in need.

Instructions and tips for students

- Pay attention to the teacher's instructions.
- Collaborate with other students in their group.
- Have active participation during the lesson and answer the teacher's questions.
- Share their previous and new knowledge, raise additional questions, and engage in a dialogue about food systems and zero hunger.

References/further reading

<https://www.intrahealth.org/vital/4-reasons-teach-sustainable-development-goals-every-classroom>

https://ec.europa.eu/eurostat/statistics-explained/index.php?title=SDG_2_-_Zero_hunger#:~:text=SDG%20%20seeks%20to%20end.and%20agricultural%20research%20and%20development

Activity #2	Title of the activity
Sustainable Development Goal 2	Food Security Quest Game
Objectives of the activity	
<p>To engage students in a gamified learning experience that promotes understanding of food security, its challenges, and the importance of SDG 2. The activities encourage teamwork, critical thinking, and creativity while providing a glimpse into the complexities of addressing food security and sustainable agriculture. They are perfect for sparking discussions and generating ideas in a short amount of time.</p>	
Details for the activity	
<ul style="list-style-type: none"> - Material – Game board (can be drawn on a large sheet of paper or created digitally); Game tokens or markers (one for each player/team); Question cards (prepared in advance, with questions related to food security and SDG 2); Stopwatch or timer; Scoreboard or a large sheet of paper to track points - Duration –60 minutes - Group number – 15 - 20 students aged 10-14 (divided into few groups) 	
Instructions and tips for teachers	
<ul style="list-style-type: none"> - Game Setup: Create a game board representing a quest or journey. It can be divided into sections or spaces, each representing different aspects of food security and related challenges. Place question cards face-down in a stack near the game board. Assign each player or team a game token or marker. -Game Rules: The objective of the game is to progress through the quest by correctly answering food security-related questions and challenges. Players take turns rolling dice or using a spinner to determine their movement on the game board. The player/team with the highest number starts. Each player/team starts at the beginning of the quest and moves forward based on the number rolled. When a player/team lands on a new space, they draw a question card and read it aloud. - Question Challenges: Each question card should contain a food security-related question or challenge related to SDG 2. Example: 1. Question: What is the primary objective of SDG 2? Answer Choices: a) Clean Water and Sanitation b) Quality Education c) Zero Hunger d) Gender Equality 	

2. Question: Which of the following is NOT a key aspect of SDG 2?

Answer Choices:

- a) Eradicating poverty in all its forms
- b) Ensuring access to safe, nutritious, and sufficient food
- c) Promoting sustainable agriculture
- d) Reducing greenhouse gas emissions

3. Challenge: Name three food items from each of the five food groups (fruits, vegetables, grains, proteins, and dairy) within one minute.

4. Challenge: Draw or write three emojis that represent different aspects of SDG 2, such as hunger, farming, and nutrition, within one minute.

5. Question: Which of the following practices contributes to sustainable agriculture and supports SDG 2?

Answer Choices:

- a) Excessive use of chemical fertilizers and pesticides
- b) Deforestation for agriculture expansion
- c) Crop rotation and agroforestry
- d) Overfishing in oceans and rivers

6. Challenge: One-minute food-related riddles to solve. For example, "I am a yellow fruit, and monkeys love to eat me. What am I?" (Answer: Banana) If the game is played in teams the student can ask one of the team members and if the team member answers correctly they move forward. The players have one minute to think of a riddle and to answer it.

7. Question: True or False: SDG 2 focuses only on ending hunger in developing countries and doesn't address hunger in developed nations.

8. Challenge: Come up with three practical ways to reduce food waste in the homes or school within one minute.

9. Question: What role does gender equality play in achieving SDG 2?

Answer Choices:

- a) It has no impact on hunger and food security.
- b) Gender equality is essential for sustainable agriculture and food production.
- c) Gender equality only applies to developed nations.
- d) Reducing hunger can happen independently of gender equality efforts.

10. Challenge: Within one minute find and share a surprising fact about hunger or food insecurity around the world.

Additional question examples that require full answer without given options:

1. What is the definition of food security?
2. Name three factors that contribute to food insecurity.
3. How does climate change impact food security?
4. What are the main causes of hunger and malnutrition in the world today?
5. Identify two strategies that can help increase agricultural productivity and food production.
6. How do conflict and political instability affect food security in a region?
7. Explain the concept of sustainable agriculture and its role in achieving food security.
8. Name three innovative technologies or practices that can enhance food security.
9. What are the key differences between chronic hunger and acute hunger?
10. Describe one initiative or project that aims to address food security at the global or local level.

The questions can be modified depending on the student's age and knowledge.

The player/team must answer the question within a set time limit (e.g., 30 seconds or 1 minute).

If the answer is correct, the player/team earns a point. If incorrect, they do not earn a point, and the turn passes to the next player/team.

- Bonus Challenges:

Include special spaces on the game board where players/teams can encounter bonus challenges related to food security.

Bonus challenges can involve group activities, such as brainstorming solutions to food security issues or engaging in a mini-research task.

Example of bonus challenges:

1. Ask the group to come up with as many innovative solutions to address food insecurity in their community as they can within the time limit.
2. Provide the group with a specific aspect of food security (e.g., sustainable agriculture, food waste reduction, nutrition programs). In one minute, students must quickly research key facts and statistics related to their assigned topic, then share their findings with the rest of the class.
3. Have the group write down their best idea for promoting sustainable agriculture or improving food access on separate sticky notes. Then, challenge them to stick their ideas on a designated board in one minute, creating a visual gallery of solutions.
4. Task the group with identifying local organizations or initiatives that are already working towards SDG 2. Students must research one organization within a minute and share how it contributes to food security in the community.
5. Assign the group to create a mini-policy proposal focused on a specific aspect of food security. In one minute, they must outline the key points of their proposal, such as providing subsidies for small farmers or implementing school lunch programs.
6. Present the group with a food security challenge, such as extreme weather affecting crops or unequal food distribution. Within one minute, they must discuss potential solutions and present their ideas to the class.

7. Invite the group to imagine themselves as “Sustainable Superheroes” tasked with combating hunger. In one minute, they must create a superhero identity and describe how their unique powers can contribute to achieving SDG 2.

8. Each group member quickly jots down what they ate for breakfast that morning. Within one minute, the group discusses the nutritional value of their meals and suggests possible improvements for a more balanced diet.

9. Challenge the group to design a one-minute infographic that visually represents the impact of food waste on hunger and the environment. They can use simple drawings or symbols to convey their message.

10. In one minute, the group should compile a list of simple, affordable, and nutritious recipes that could benefit individuals facing food insecurity. They can include ingredients and cooking instructions for easy reference.

- Progression and Winning:

Players/teams continue taking turns, moving along the game board, and answering questions. Keep track of the points earned by each player/team on a scoreboard or a large sheet of paper. The game concludes when all players/teams reach the end of the quest.

The player/team with the highest number of points at the end wins the game.

- Post-Game Discussion:

After the game, facilitate a discussion about food security, the challenges faced, and the importance of SDG 2.

Encourage students to reflect on the questions and challenges encountered during the game and explore potential solutions to address food security issues.

Discuss the impact of individual actions and collective efforts in achieving SDG 2.

On the following link you can find an example of this activity in English language designed as a board game using the free app Canva.

https://www.canva.com/design/DAF65LZ1L6U/jcmiUj62kAiM9l9vHe_Cqg/edit?utm_content=DAF65LZ1L6U&utm_campaign=designshare&utm_medium=link2&utm_source=share-button

Instructions and tips for students

- Pay attention to the instructions of the game.
- Collaborate with other students in their group.
- Have active participation in the game.
- Reflect on the questions and challenges encountered during the game.
- Engage in a discussion about food security, the challenges faced, and the importance of SDG 2.

References/further reading

<https://www.worldbank.org/en/topic/agriculture/brief/food-security-update/what-is-food-security#:~:text=Based%20on%20the%201996%20World.an%20active%20and%20healthy%20life.>

<https://health.gov/healthypeople/objectives-and-data/browse-objectives/nutrition-and-healthy-eating/reduce-household-food-insecurity-and-hunger-nws-01#:~:text=Food%20insecurity%20is%20linked%20to,reduce%20food%20insecurity%20and%20hunger.>

Activity #3	Title of the activity
Sustainable Development Goal 2	SDG 2 Quiz Game - Zero Hunger
Objectives of the activity	
The objective of this quiz game is to educate students about SDG 2 and raise awareness about the importance of eradicating hunger and achieving food security.	
Details for the activity	
<ul style="list-style-type: none"> -Material – question cards, buzzers - Duration – depends on the time assigned for each question - Group number – 15 - 20 students aged 10-14 (divided into few groups or have them work individually) 	
Instructions and tips for teachers	
<ul style="list-style-type: none"> - Divide the students into teams or have them work individually, depending on your classroom setup and preferences. - Prepare a list of multiple-choice questions related to SDG 2 and zero hunger. You can use the following sample questions or create your own: <ul style="list-style-type: none"> - Sample Questions: <ul style="list-style-type: none"> • Question 1: What is the main goal of SDG 2? <ul style="list-style-type: none"> a) Access to clean water and sanitation b) No poverty c) Zero hunger d) Quality education • Question 2 :True or False: SDG 2 aims to ensure that every person has access to three meals a day. • Question 3: Which UN agency plays a crucial role in addressing global hunger and food security? <ul style="list-style-type: none"> a) WHO (World Health Organization) b) UNICEF (United Nations Children's Fund) c) FAO (Food and Agriculture Organization) d) UNESCO (United Nations Educational, Scientific and Cultural Organization) • Question 4: What does "food security" mean? <ul style="list-style-type: none"> a) Having a secure job in the food industry b) Having a pantry full of food at home c) Having reliable access to sufficient, safe, and nutritious food d) Having access to gourmet restaurants • Question 5 : True or False: Hunger is solely a problem in developing countries. 	

- Question 6: Which of the following is a key factor contributing to hunger and food insecurity in many regions?
 - a) Overproduction of food
 - b) Unequal distribution of food resources
 - c) Excessive consumer demand
 - d) Lack of technological innovation in agriculture

- Question 7: What is the significance of the term “food deserts”?
 - a) Regions with abundant agricultural resources
 - b) Areas where food is scarce due to extreme weather conditions
 - c) Communities with limited access to affordable, nutritious food
 - d) Places known for high-quality restaurants

- Question 8: True or False: Malnutrition refers only to the condition of being underweight.

- Question 9: What role does agriculture play in achieving SDG 2?
 - a) Agriculture is not related to SDG 2.
 - b) Agriculture is the main cause of hunger and should be reduced.
 - c) Sustainable agriculture is a key driver in achieving SDG 2 by increasing food production and reducing hunger.
 - d) Agriculture is primarily responsible for environmental degradation and should be minimized.

- Question 10: Which of the following is a form of food waste reduction strategy?
 - a) Buying more food than needed to ensure availability
 - b) Composting food scraps
 - c) Throwing away perfectly good food due to minor cosmetic imperfections
 - d) Encouraging consumers to purchase excess food to support the economy

Here are the correct answers:

Answer 1: c) Zero hunger

Answer 2: False (SDG 2 aims to eliminate all forms of hunger and malnutrition)

Answer 3: c) FAO (Food and Agriculture Organization)

Answer 4: c) Having reliable access to sufficient, safe, and nutritious food

Answer 5: False (Hunger can be a problem in both developing and developed countries)

Answer 6: b) Unequal distribution of food resources

Answer 7: c) Communities with limited access to affordable, nutritious food

Answer 8: False

Answer 9: c) Sustainable agriculture is a key driver in achieving SDG 2 by increasing food production and reducing hunger.

Answer 10: b) Composting food scraps

Assign a point value to each question. You can have easier questions be worth fewer points and more challenging ones worth more points.

Inform students if there are more than one correct answers.

Present the questions to the students one at a time. Give them a specified amount of time (e.g., 30 seconds to 1 minute) to discuss and select their answers. Educators can use these questions to create quiz on SDG 2 and zero hunger, and/or adapt them as needed for their classroom activity.

After the time is up, have each team or student provide their answers.

Discuss the correct answers and provide explanations for each question.

Keep track of each team's or student's scores and announce the winners at the end of the quiz.

The sample questions can be used as an interactive quiz game activity in a classroom or can be used in an online quiz activity on a platform chosen by the educator.

Instructions and tips for students

- Pay attention to the instructions of the quiz.
- Collaborate with other students in their group (if the quiz is done in teams).
- Have active participation in the quiz.
- Reflect on the questions and challenges encountered during the quiz.

References/further reading

<https://sdgs.un.org/goals/goal2>

<https://www.undp.org/sustainable-development-goals/zero-hunger>

