const questionArea = document.getElementById('question-area');

const question = document.getElementById('question');

const options = document.getElementById('options');

const feedback = document.getElementById('feedback');

const score = document.getElementById('score');

const badge = document.getElementById('badge');

const planet = document.getElementById('planet');

const ghgTube = document.getElementById('ghg-tube');

const segments = document.querySelectorAll('.segment');

const playAgainButton = document.getElementById('play-again');

let currentQuestion = 0;

let scoreValue = 0;

let currentLevel = 1;

let ghgLevel = 0; // Count of filled segments

// Hardcoded quiz questions and options

const levels = [

  {

    questions: [

      {

        question: "What is the main cause of climate change?",

        options: ["Fossil fuels", "Natural cycles", "Solar flares"],

        Answer: 0

      },

      {

        question: "Which greenhouse gas is most responsible for global warming?",

        options: ["Carbon dioxide", "Methane", "Nitrous oxide"],

        Answer: 0

      },

      {

        question: "What is the Kyoto Protocol?",

        options: ["An international agreement to reduce greenhouse gas emissions", "A treaty to protect endangered species", "A plan to develop renewable energy"],

        Answer: 0

      },

      {

        question: "What is the difference between weather and climate?",

        options: ["Weather is short-term, climate is long-term", "Weather is global, climate is local"],

        Answer: 0

      },

      {

        question: "What is the main cause of rising sea levels?",

        options: ["Melting glaciers and ice sheets", "Increased precipitation", "Tectonic plate movements"],

        Answer: 0

      },

      {

        question: "What are the effects of climate change on ecosystems?",

        options: ["Loss of biodiversity", "Increased wildfires", "More extreme weather events", "All of the above"],

        Answer: 3

      },

      {

        question: "What is the role of deforestation in climate change?",

        options: ["Deforestation releases carbon dioxide into the atmosphere", "Deforestation increases the Earth's albedo", "Deforestation reduces the amount of oxygen produced", "All of the above"],

        Answer: 3

      },

      {

        question: "How can we reduce our carbon footprint?",

        options: ["Use less energy", "Drive less", "Recycle and compost", "All of the above"],

        Answer: 3

      },

      {

        question: "What are renewable energy sources?",

        options: ["Solar", "Wind", "Hydropower", "All of the above"],

        Answer: 3

      },

      {

        question: "What are some ways to adapt to climate change?",

        options: ["Building seawalls", "Developing drought-resistant crops", "Improving disaster preparedness", "All of the above"],

        Answer: 3

      }

    ]

  }

];

function displayQuestion() {

  if (currentQuestion < levels[currentLevel - 1].questions.length) {

    const currentLevelQuestions = levels[currentLevel - 1].questions;

    question.textContent = currentLevelQuestions[currentQuestion].question;

    options.innerHTML = "";

    currentLevelQuestions[currentQuestion].options.forEach((option, index) => {

      const optionElement = document.createElement('button');

      optionElement.textContent = option;

      optionElement.addEventListener('click', () => checkAnswer(index, optionElement));

      options.appendChild(optionElement);

    });

    feedback.textContent = "";

  } else {

    endGame();

  }

}

function checkAnswer(selectedOption, selectedButton) {

  const correctAnswer = levels[currentLevel - 1].questions[currentQuestion].Answer;

  // Disable all buttons after selection

  const buttons = options.querySelectorAll('button');

  buttons.forEach(button => button.disabled = true);

  if (selectedOption === correctAnswer) {

    scoreValue += 10; // Increase score by 10 for correct answer

    ghgLevel = Math.min(10, ghgLevel + 1); // Increase by one segment

    feedback.textContent = "Correct! 🎉";

    updatePlanet(true); // Update planet to green for correct answer

  } else {

    scoreValue = Math.max(0, scoreValue - 10); // Decrease score by 10 for wrong answer

    ghgLevel = Math.max(0, ghgLevel - 1); // Decrease one segment

    feedback.textContent = "Wrong! 😢";

    updatePlanet(false); // Update planet to red for wrong answer

  }

  score.textContent = scoreValue; // Update score display

  updateGHGTube(); // Update GHG level visual

  // Move to the next question automatically

  currentQuestion++;

  setTimeout(displayQuestion, 1000); // Wait 1 second before displaying the next question

}

function updatePlanet(isCorrect) {

  if (isCorrect) {

    // If the answer is correct, gradually turn the planet green

    planet.style.filter = 'hue-rotate(-120deg)';// Green color

  } else {

    // If the answer is wrong, gradually turn the planet red

    planet.style.filter = 'hue-rotate(120deg)'; // Red color

  }

}

function updateGHGTube() {

  segments.forEach((segment, index) => {

    segment.classList.toggle('filled', index < ghgLevel); // Fill segments based on ghgLevel

  });

}

function endGame() {

  questionArea.style.display = "none";

  if (scoreValue == 100) {

    badge.textContent = "Climate Champion!";

  } else if (scoreValue >= 70) {

    badge.textContent = "Climate Warrior!";

    else if (scoreValue >= 50) {

        badge.textContent = "Climate Learner!";

  } else {

    badge.textContent = "Try Again";

  }

  playAgainButton.style.display = "block";

}

playAgainButton.addEventListener('click', () => {

  currentQuestion = 0;

  scoreValue = 0;

  ghgLevel = 0; // Reset to empty

  score.textContent = scoreValue;

  badge.textContent = "";

  playAgainButton.style.display = "none";

  questionArea.style.display = "block";

  displayQuestion();

  updatePlanet();

  updateGHGTube();

});

// Start the quiz

displayQuestion();

const levels = [

{ // Level 1

questions: [

{

question: "What is the largest planet in our solar system?",

options: ["Earth", "Jupiter", "Mars"],

Answer: 1

},

{

question: "What gas do plants absorb from the atmosphere?",

options: ["Oxygen", "Nitrogen", "Carbon dioxide"],

Answer: 2

},

{

question: "What is the main source of energy for the Earth?",

options: ["The Moon", "The Sun", "The Stars"],

Answer: 1

},

{

question: "Which of the following is a renewable resource?",

options: ["Oil", "Coal", "Solar energy"],

Answer: 2

},

{

question: "What natural resource is used to make paper?",

options: ["Plastic", "Trees", "Metal"],

Answer: 1

},

{

question: "What is the process called when water vapor turns into liquid water?",

options: ["Evaporation", "Condensation", "Precipitation"],

Answer: 1

},

{

question: "What is the main purpose of recycling?",

options: ["To create waste", "To reduce pollution", "To increase energy consumption"],

Answer: 1

},

{

question: "What layer of the Earth’s atmosphere protects us from harmful UV radiation?",

options: ["Stratosphere", "Troposphere", "Mesosphere"],

Answer: 0

},

{

question: "What do you call the variety of life in the world or in a particular habitat?",

options: ["Ecology", "Biodiversity", "Sustainability"],

Answer: 1

},

{

question: "What is a common effect of climate change?",

options: ["Shorter winters", "Stable temperatures", "Rising sea levels"],

Answer: 2

}

]

},

{ // Level 2

questions: [

{

question: "What is climate?",

options: ["The average weather over a long period", "The weather at a specific time", "A type of biome"],

Answer: 0

},

{

question: "What is the greenhouse effect?",

options: ["A phenomenon that keeps the Earth warm", "A method of farming", "A type of pollution"],

Answer: 0

},

{

question: "Which gas is a major contributor to the greenhouse effect?",

options: ["Oxygen", "Carbon dioxide", "Helium"],

Answer: 1

},

{

question: "What is the primary cause of global warming?",

options: ["Natural cycles", "Human activities", "Volcanic eruptions"],

Answer: 1

},

{

question: "What percentage of the Earth is covered by water?",

options: ["30%", "50%", "70%"],

Answer: 2

},

{

question: "What is an example of a greenhouse gas?",

options: ["Oxygen", "Carbon dioxide", "Hydrogen"],

Answer: 1

},

{

question: "What effect does deforestation have on the climate?",

options: ["Increases biodiversity", "Decreases carbon emissions", "Increases carbon dioxide levels"],

Answer: 2

},

{

question: "What is the most abundant greenhouse gas?",

options: ["Water vapor", "Carbon dioxide", "Methane"],

Answer: 0

},

{

question: "What can help mitigate climate change?",

options: ["Increased fossil fuel use", "Planting trees", "Reducing recycling"],

Answer: 1

},

{

question: "What is a carbon footprint?",

options: ["A measure of greenhouse gases emitted", "The size of a person's foot", "An environmental policy"],

Answer: 0

}

]

},

{ // Level 3

questions: [

{

question: "What is the main purpose of the Kyoto Protocol?",

options: ["To reduce greenhouse gas emissions", "To promote fossil fuel use", "To protect endangered species"],

Answer: 0

},

{

question: "What is the term for energy that comes from sources that are naturally replenished?",

options: ["Fossil fuels", "Renewable energy", "Non-renewable energy"],

Answer: 1

},

{

question: "What is the main consequence of ice melting in the Arctic?",

options: ["More polar bears", "Less rising sea levels", "Rising sea levels"],

Answer: 2

},

{

question: "What does 'sustainability' mean?",

options: ["Using resources faster than they can be replenished", "Using resources without depleting them", "Ignoring environmental impact"],

Answer: 1

},

{

question: "Which of the following is NOT a renewable energy source?",

options: ["Solar energy", "Wind energy", "Natural gas"],

Answer: 2

},

{

question: "What is a key characteristic of the carbon cycle?",

options: ["Carbon is constantly recycled", "Carbon cannot be recycled", "Carbon is created anew"],

Answer: 0

},

{

question: "What human activity is the largest source of greenhouse gas emissions?",

options: ["Deforestation", "Transportation", "Electricity generation"],

Answer: 2

},

{

question: "What can individuals do to reduce their carbon footprint?",

options: ["Use more plastic", "Drive more frequently", "Use public transport"],

Answer: 2

},

{

question: "What is climate adaptation?",

options: ["Changing weather patterns", "Adjusting practices to minimize damage from climate change", "Ignoring climate change effects"],

Answer: 1

},

{

question: "What role do oceans play in climate regulation?",

options: ["Absorbing carbon dioxide", "Creating weather patterns", "Preventing natural disasters"],

Answer: 0

}

]

},

{ // Level 4

questions: [

{

question: "What is the primary function of the ozone layer?",

options: ["To protect against UV radiation", "To absorb CO2", "To regulate temperature"],

Answer: 0

},

{

question: "What is a common way to measure temperature?",

options: ["Celsius", "Foot", "Inches"],

Answer: 0

},

{

question: "Which of the following gases is a significant contributor to acid rain?",

options: ["Sulfur dioxide", "Nitrogen", "Carbon monoxide"],

Answer: 0

},

{

question: "What is an ecosystem?",

options: ["A community of living organisms interacting with their environment", "A type of greenhouse gas", "A measure of biodiversity"],

Answer: 0

},

{

question: "Which process in nature releases carbon dioxide?",

options: ["Photosynthesis", "Respiration", "Transpiration"],

Answer: 1

},

{

question: "What is a consequence of rising temperatures on glaciers?",

options: ["They expand", "They melt", "They freeze"],

Answer: 1

},

{

question: "Which of the following is a benefit of reforestation?",

options: ["Decreased biodiversity", "Increased carbon emissions", "Improved air quality"],

Answer: 2

},

{

question: "What is a major environmental concern of plastic use?",

options: ["It is biodegradable", "It can take hundreds of years to decompose", "Clean oceans"],

Answer: 1

},

{

question: "Which energy source has the least environmental impact?",

options: ["Fossil fuels", "Nuclear energy", "Wind energy"],

Answer: 2

},

{

question: "What does 'biodegradable' mean?",

options: ["Can be broken down by natural processes", "Cannot be broken down", "Is man-made"],

Answer: 0

}

]

},

{ // Level 5

questions: [

{

question: "What is the Paris Agreement?",

options: ["An international treaty to combat climate change", "A local policy", "An energy source"],

Answer: 0

},

{

question: "Which type of energy does not produce greenhouse gases?",

options: ["Coal", "Solar", "Oil"],

Answer: 1

},

{

question: "What is the effect of overfishing on marine ecosystems?",

options: ["It increases fish populations", "It decreases fish populations", "It has no effect"],

Answer: 1

},

{

question: "What is a carbon offset?",

options: ["A reduction in greenhouse gases", "An increase in emissions", "The amount of energy used"],

Answer: 0

},

{

question: "What does climate resilience refer to?",

options: ["The ability to recover from climate impacts", "The impact of climate on architecture", "The degree of temperature rise"],

Answer: 0

},

{

question: "What is one way to conserve water?",

options: ["Using more water", "Leaving the tap running", "Fixing leaks"],

Answer: 2

},

{

question: "Which of the following can help reduce the urban heat island effect?",

options: ["Planting more trees", "Increasing concrete surfaces", "Using darker colors for roofs"],

Answer: 0

},

{

question: "What is the role of carbon sinks?",

options: ["To absorb carbon dioxide", "To release carbon dioxide", "To store energy"],

Answer: 0

},

{

question: "What can reduce the effects of climate change?",

options: ["Switching to renewable energy", "Increasing fossil fuel use", "Ignoring the problem"],

Answer: 0

},

{

question: "What does the term 'climate justice' refer to?",

options: ["Fair treatment of all people regarding climate change", "Equal distribution of fossil fuels", "Taxation of renewable energy"],

Answer: 0

}

]

},

{ // Level 6

questions: [

{

question: "What are the effects of climate change on agriculture?",

options: ["Increased crop yields", "Changes in growing seasons", "No effects"],

Answer: 1

},

{

question: "What is the main purpose of carbon trading?",

options: ["To reduce greenhouse gas emissions", "To promote fossil fuel use", "To increase profits"],

Answer: 0

},

{

question: "What is the difference between mitigation and adaptation?",

options: ["Mitigation reduces emissions; adaptation adjusts to changes", "Mitigation adjusts to changes; adaptation reduces emissions", "Both are the same"],

Answer: 0

},

{

question: "What role does transportation play in climate change?",

options: ["Minimal impact", "Major contributor", "Only contributes during summer"],

Answer: 1

},

{

question: "What is an example of a negative feedback loop in climate?",

options: ["Increased temperature leads to more ice melting", "Increased CO2 leads to more plants", "None of the above"],

Answer: 0

},

{

question: "What are climate models used for?",

options: ["To predict future climate conditions", "To measure current weather", "To test building designs"],

Answer: 0

},

{

question: "How does deforestation contribute to climate change?",

options: ["Trees absorb CO2", "Trees release CO2", "Trees have no effect"],

Answer: 0

},

{

question: "What is a climate anomaly?",

options: ["A normal climate event", "An unexpected climate pattern", "A weather forecast"],

Answer: 1

},

{

question: "What is the goal of the United Nations Framework Convention on Climate Change (UNFCCC)?",

options: ["To stabilize greenhouse gas concentrations", "To promote fossil fuels", "To regulate water use"],

Answer: 0

},

{

question: "What is meant by 'net zero' emissions?",

options: ["Balancing emitted greenhouse gases with those removed", "Having zero emissions", "Only reducing emissions"],

Answer: 0

}

]

},

{ // Level 7

questions: [

{

question: "What is the role of the Intergovernmental Panel on Climate Change (IPCC)?",

options: ["To assess scientific information related to climate change", "To promote climate denial", "To sell climate solutions"],

Answer: 0

},

{

question: "What is one consequence of ocean acidification?",

options: ["Stronger fish populations", "Coral bleaching", "Improved water quality"],

Answer: 1

},

{

question: "What are some sources of methane emissions?",

options: ["Landfills, agriculture, natural gas", "Trees, oceans, rocks", "Coal, solar, wind"],

Answer: 0

},

{

question: "What does the term 'greenwashing' refer to?",

options: ["Misleading claims about environmental benefits", "The act of planting trees", "Creating green products"],

Answer: 0

},

{

question: "What is a significant challenge to climate change mitigation?",

options: ["Public awareness", "Technology", "Political will"],

Answer: 2

},

{

question: "What is the purpose of the Green Climate Fund?",

options: ["To assist developing countries in climate change mitigation", "To promote fossil fuel use", "To tax renewable energy"],

Answer: 0

},

{

question: "What does 'climate tipping point' mean?",

options: ["A threshold beyond which significant changes occur", "The point of no return", "A measure of global temperature"],

Answer: 0

},

{

question: "What is the relationship between climate change and extreme weather events?",

options: ["Climate change decreases extreme weather", "Climate change increases the frequency and intensity of extreme weather", "There is no relationship"],

Answer: 1

},

{

question: "What is the effect of climate change on human health?",

options: ["Increased health risks", "Improved health outcomes", "No effect"],

Answer: 0

},

{

question: "What is the role of renewable energy in combating climate change?",

options: ["It contributes to greenhouse gas emissions", "It helps reduce reliance on fossil fuels", "It has no role"],

Answer: 1

}

]

},

{ // Level 8

questions: [

{

question: "What is the significance of the Paris Agreement?",

options: ["It legally binds countries to reduce emissions", "It promotes fossil fuel development", "It is a local policy"],

Answer: 0

},

{

question: "What is the purpose of the Climate Change Act?",

options: ["To set legally binding greenhouse gas reduction targets", "To promote fossil fuel use", "To regulate water quality"],

Answer: 0

},

{

question: "How does climate change affect food security?",

options: ["It has no effect", "It can disrupt food production", "It guarantees food production"],

Answer: 1

},

{

question: "What are carbon offsets?",

options: ["A way to balance out emissions", "A government policy", "A type of fossil fuel"],

Answer: 0

},

{

question: "What is the relationship between biodiversity and climate change?",

options: ["Biodiversity can help mitigate climate change", "There is no relationship", "Biodiversity increases emissions"],

Answer: 0

},

{

question: "What is the role of environmental education in addressing climate change?",

options: ["To increase ignorance", "To inform and empower individuals", "To promote fossil fuel use"],

Answer: 1

},

{

question: "How do natural disasters relate to climate change?",

options: ["They are unrelated", "They can become more frequent and intense", "They always cause climate change"],

Answer: 1

},

{

question: "What is the impact of melting permafrost?",

options: ["Increased biodiversity", "Release of greenhouse gases", "No impact"],

Answer: 1

},

{

question: "What are some strategies for climate adaptation?",

options: ["Infrastructure improvements", "Community planning", "Both A and B"],

Answer: 2

},

{

question: "What does climate mitigation involve?",

options: ["Reducing emissions and enhancing sinks", "Only reducing emissions", "Only enhancing sinks"],

Answer: 0

}

]

},

{ // Level 9

questions: [

{

question: "What is the concept of environmental justice?",

options: ["Equitable distribution of environmental benefits and burdens", "A focus on industrial development", "Only benefiting wealthy communities"],

Answer: 0

},

{

question: "What is the impact of industrial agriculture on climate change?",

options: ["It has no impact", "It contributes significantly to greenhouse gas emissions", "It reduces emissions"],

Answer: 1

},

{

question: "How do forests contribute to carbon sequestration?",

options: ["They absorb CO2", "They produce CO2", "They have no effect"],

Answer: 0

},

{

question: "What is the role of international agreements in climate action?",

options: ["They help coordinate efforts across countries", "They are ineffective", "They only benefit developed countries"],

Answer: 0

},

{

question: "What is the significance of the 'Green New Deal'?",

options: ["It addresses climate change through economic reform", "It promotes fossil fuel use", "It has no significance"],

Answer: 0

},

{

question: "What are the effects of climate change on indigenous communities?",

options: ["No effect", "Significant impacts due to environmental changes", "Increased wealth"],

Answer: 1

},

{

question: "How does climate change affect global security?",

options: ["It has no impact", "It can exacerbate conflicts over resources", "It only affects developed nations"],

Answer: 1

},

{

question: "What is the impact of climate change on freshwater resources?",

options: ["Increased availability", "Decreased availability due to changes in rainfall", "No impact"],

Answer: 1

},

{

question: "What is the main focus of the Sustainable Development Goals (SDGs)?",

options: ["Environmental, social, and economic sustainability", "Only economic growth", "Only environmental protection"],

Answer: 0

},

{

question: "What are some examples of climate engineering?",

options: ["Carbon capture and storage", "Planting trees", "Increasing fossil fuel use"],

Answer: 0

}

]

},

{ // Level 10

questions: [

{

question: "What is geoengineering?",

options: ["Deliberate intervention in the Earth's climate system", "A natural climate solution", "An irrelevant concept"],

Answer: 0

},

{

question: "What is the primary source of ocean heat content increase?",

options: ["Greenhouse gas emissions", "Solar radiation", "Volcanic activity"],

Answer: 0

},

{

question: "What are the implications of the loss of biodiversity?",

options: ["Greater ecosystem resilience", "Disruption of ecosystem services", "No implications"],

Answer: 1

},

{

question: "What is the impact of climate change on human migration?",

options: ["It has no impact", "It can lead to climate refugees", "It improves migration"],

Answer: 1

},

{

question: "What is the significance of the Arctic in climate change?",

options: ["It is a major carbon sink", "It is warming at a faster rate", "It has no significance"],

Answer: 1

},

{

question: "What is the role of businesses in combating climate change?",

options: ["They have no role", "They can implement sustainable practices", "They only focus on profit"],

Answer: 1

},

{

question: "What is the relationship between climate change and economic inequality?",

options: ["There is no relationship", "Climate change disproportionately affects vulnerable communities", "Wealthy communities benefit"],

Answer: 1

},

{

question: "What is a carbon-neutral goal?",

options: ["Reducing carbon emissions to net zero", "Increasing carbon emissions", "Ignoring emissions"],

Answer: 0

},

{

question: "What are the potential benefits of transitioning to a green economy?",

options: ["Sustainable growth", "Job creation", "Both A and B"],

Answer: 2

},

{

question: "What does 'climate adaptation' involve?",

options: ["Adjusting practices to minimize damage from climate change", "Ignoring climate change", "Only reducing emissions"],

Answer: 0

}

]

}

];

const questionArea = document.getElementById('question-area');

const question = document.getElementById('question');

const options = document.getElementById('options');

const feedback = document.getElementById('feedback');

const score = document.getElementById('score');

const badgeContainer = document.getElementById('badge'); // Badge container for displaying badges

const segments = document.querySelectorAll('.segment');

const playAgainButton = document.getElementById('play-again');

let currentQuestion = 0;

let scoreValue = 0;

let currentLevel = 1;

let ghgLevel = 0; // Count of filled segments

// Hardcoded quiz questions and options with badge information

const levels = [

  { // Level 1

    questions: [

      {

        question: "What is the largest planet in our solar system?",

        options: ["Earth", "Jupiter", "Mars"],

        Answer: 1

      },

      {

        question: "What gas do plants absorb from the atmosphere?",

        options: ["Oxygen", "Nitrogen", "Carbon dioxide"],

        Answer: 2

      },

      {

        question: "What is the main source of energy for the Earth?",

        options: ["The Moon", "The Sun", "The Stars"],

        Answer: 1

      },

      {

        question: "Which of the following is a renewable resource?",

        options: ["Oil", "Coal", "Solar energy"],

        Answer: 2

      },

      {

        question: "What natural resource is used to make paper?",

        options: ["Plastic", "Trees", "Metal"],

        Answer: 1

      },

      {

        question: "What is the process called when water vapor turns into liquid water?",

        options: ["Evaporation", "Condensation", "Precipitation"],

        Answer: 1

      },

      {

        question: "What is the main purpose of recycling?",

        options: ["To create waste", "To reduce pollution", "To increase energy consumption"],

        Answer: 1

      },

      {

        question: "What layer of the Earth’s atmosphere protects us from harmful UV radiation?",

        options: ["Stratosphere", "Troposphere", "Mesosphere"],

        Answer: 0

      },

      {

        question: "What do you call the variety of life in the world or in a particular habitat?",

        options: ["Ecology", "Biodiversity", "Sustainability"],

        Answer: 1

      },

      {

        question: "What is a common effect of climate change?",

        options: ["Shorter winters", "Stable temperatures", "Rising sea levels"],

        Answer: 2

      }

    ],

    badge: {

      title: "Climate Explorer",

      img: "badge.png" // Make sure this path is correct

    }

  }

];

function displayQuestion() {

  if (currentQuestion < levels[currentLevel - 1].questions.length) {

    const currentLevelQuestions = levels[currentLevel - 1].questions;

    question.textContent = currentLevelQuestions[currentQuestion].question;

    options.innerHTML = "";

    currentLevelQuestions[currentQuestion].options.forEach((option, index) => {

      const optionElement = document.createElement('button');

      optionElement.textContent = option;

      optionElement.addEventListener('click', () => checkAnswer(index, optionElement));

      options.appendChild(optionElement);

    });

    feedback.textContent = "";

  } else {

    endGame();

  }

}

function checkAnswer(selectedOption, selectedButton) {

  const correctAnswer = levels[currentLevel - 1].questions[currentQuestion].Answer;

  // Disable all buttons after selection

  const buttons = options.querySelectorAll('button');

  buttons.forEach(button => button.disabled = true);

  if (selectedOption === correctAnswer) {

    scoreValue += 10; // Increase score by 10 for correct answer

    ghgLevel = Math.min(10, ghgLevel + 1); // Increase by one segment

    feedback.textContent = "Correct! 🎉";

    updatePlanet(true); // Update planet to green for correct answer

  } else {

    scoreValue = Math.max(0, scoreValue - 10); // Decrease score by 10 for wrong answer

    ghgLevel = Math.max(0, ghgLevel - 1); // Decrease one segment

    feedback.textContent = "Wrong! 😢";

    updatePlanet(false); // Update planet to red for wrong answer

  }

  score.textContent = scoreValue; // Update score display

  updateGHGTube(); // Update GHG level visual

  // Move to the next question automatically

  currentQuestion++;

  setTimeout(displayQuestion, 1000); // Wait 1 second before displaying the next question

}

function updatePlanet(isCorrect) {

  if (isCorrect) {

    // If the answer is correct, gradually turn the planet green

    planet.style.filter = 'hue-rotate(-120deg)'; // Green color

  } else {

    // If the answer is wrong, gradually turn the planet red

    planet.style.filter = 'hue-rotate(120deg)'; // Red color

  }

}

function updateGHGTube() {

  segments.forEach((segment, index) => {

    segment.classList.toggle('filled', index < ghgLevel); // Fill segments based on ghgLevel

  });

}

function endGame() {

  questionArea.style.display = "none";

  // Check if all questions were answered correctly for the current level

  if (currentQuestion === levels[currentLevel - 1].questions.length && scoreValue === levels[currentLevel - 1].questions.length \* 10) {

    displayBadge(levels[currentLevel - 1].badge.title, levels[currentLevel - 1].badge.img);

  }

  playAgainButton.style.display = "block";

}

function displayBadge(title, imgSrc) {

  // Clear previous badges

  badgeContainer.innerHTML = "";

  // Create badge element

  const badgeElement = document.createElement('div');

  badgeElement.classList.add('badge');

  // Set badge image

  const img = document.createElement('img');

  img.src = imgSrc;

  img.alt = title;

  img.classList.add('badge-img');

  // Set badge title

  const titleElement = document.createElement('h3');

  titleElement.textContent = title;

  titleElement.classList.add('badge-title');

  badgeElement.appendChild(img);

  badgeElement.appendChild(titleElement);

  badgeContainer.appendChild(badgeElement);

}

playAgainButton.addEventListener('click', () => {

  currentQuestion = 0;

  scoreValue = 0;

  ghgLevel = 0; // Reset to empty

  score.textContent = scoreValue;

  badgeContainer.innerHTML = ""; // Clear badge display

  playAgainButton.style.display = "none";

  questionArea.style.display = "block";

  displayQuestion();

  updatePlanet();

  updateGHGTube();

});

// Start the quiz

displayQuestion();