Puzzle ID	Puzzie Name	Required Documents / Props	First Message	Digital Components (Video/Music)	Hint 1	Hint 2	Hint 3	Hint 4	Success Message	Answer/Key	Learning Outcomes	Notes
P001	Blocking generator	-Letter that is riped into pieces -Magnifier -QR code players scan to submit answer -Computer to submit answer	The reactor's intake system is blocked because it can't identify the main pollutant it's supposed to capture. The sensors are confused. You need to figure out what the reactor needs to capture. There is a hidden message for you that can help you	- Page with a field to validate the word. It should let the users write the word, or mater if it is in Uppercase or lowercase. Case insensities of the player know that the message is wrong. - Nessage that let the player know that the message is wrong. - Confirmation message when the answer is correct. "You got It, this is the way"	There are clues in the letter look carefully	There is something in the room that help is see things bigger	The letter has the answer in it, look at the loons	Is that a human trace?	You got it! You have identified the invisible mark the carbon foolyint. This is the total amount of greenhouse gases; like carbon dioxide, methane, and nitrous oxide emitted by a person or organization. It is measured in klograms, and by tracking this, we can see who the biggest contributors are and how our actions impact the planet. Know the sensors know what the generator needs to capture		Students will understand the meaning of carbon footprint, which is the metric used to measure the impact that every sector made in the planet	
P002	What is the target?	-Computer	The molecular disassembly chamber is maffunctioning; the lasers can't target the CO2 to decompose if it doesn't know the sources of the CO2. To califorate the laser system, you different categories have in our environment.	The interface could look like different lasers pointing in different places and are not aligned. When the users complete the drag-and-drop teature, the lasers can point directly to the categories. -4 sections: Food, Clothing, Technology services, -4 sections: Food, Clothing, Technology services, -1 sist of terms that the user can drag and drop into the categories1 Sist of terms that the user can drag and drop into the categories1 You'c chemicals -1 You'c chemicals -1 You'c chemicals -1 Foosil Fuel -1 Microplastic pollution -1 Methane emissions -1 Mining extraction -1 Eloidversity Loss -1 Ecological Waste	wash your clothes	need a place where to live, what cost it can	Transportation: In order to move what source of energy do you need?		You nailed it! Now the lasers know where to point. Our fally actions for the lasers know where to point. Our fally actions and rid. Every sector has hidden costs that we sometimes can not see but we can help reduce with small actions. For example, we can buy food grown locally, buy second-hand clothes, used inferent types of transportation, like walking or riding a bicycle. Did you know that one-thrift of all food produced is wasted? Every year, wasted food in the UK represents 14 million tonnes of carbon clioside emissions. In total, these greenhouse gas emissions are the same as strose created by 7 million cars each year.	-clothing: Toxic chemicals, water use, and Microplastic pollutionTechnology services: Water cooling, fossif fuel, ecological weste, and mining extraction. emission, Land use, Blodiversity lossTransportation: Fossi	Students will start to understand that every sector contributes differently and by draging and dropping the terms, they can visually see the hidden cost. They can start thinking with the cost and the	
P003	Power Plant Leak	-Paper	At the power plant control room, there's an energy leak happening because some mechines see still drawing power even though they're not running properly. Students have to spot the machines that are leaking phantom energy and identify the cause.	Cartoon/filustration of a power plant control room: (Lots of screens, cables, giant machines, panels.) Hidden among them: Idle monitor (showing screensaver but still on) Control panel (standby lights blinking) Security cameras (left running) Big charger station (for work tablets, plugged in but empty) Coffee machine (still plugged, tiny ON light visible)	"Look for machines that are on but not working." "Tiny lights and screens are clues!"				Great job finding the leaks! This hidden waste of energy is called Phanton Power (or Standby Power). Even when machines seem 'off,' they can still quietly drain energy unless fully unplugged or switched off.	Idle Monitor Control Panel Lights Security Cameras Charging Station Coffee Machine	Make students realize phantom power happens everywhere, not just at home. Emphasize that even a power plant needs good energy management!	Include tiny glowing lights on equipment (easy to spot with attention). Also add other idle machines that can throw them off
P004	Recycling Relay	One printed sheet with: Icons or mini drawings of different items (plasts bottle, newspaper, soda can, banana peel, old phone, glass jar, etc.). A Recycling Bins Table labeled: Plastic Paper Metal Organic E-Waste Glass Space for players to sort the items by writing which bin they go into.	The recycling center's sorting machine is broken! You need to manually sort the trash into the correct bins before the pile overflows. Match each tlem to the right recycling bin. Act fast — the planet is counting on you!	Items to Sort (pictures + Item names): Crushed plastic bottle Old newspaper Empty soda can Banana peel Broken smartphone	If you can eat it, it belongs to nature.	If it plugs in or uses battenes, it's special waste.	Shiny and metallic? There's a bin for that too.	Clear and fragile? Handle with care.	Great job! The recycling center is back on track Remember, sorting waste correctly reduces politition, saves energy, and gives new life to old items, new life to old items, old pieck texps our planet cleaner and greener.	Bin Items Plastic Crushed plastic bottle Paper Old newspaper, Cardboard box Metal Empty soda can, Rusty metal fork Organic Banana peel, Orange peel E-Waste Broken smartphone, Used batteries Glass Glass jam jar	Learn how to properly separate different kinds of waste. Understand the importance of e-waste recycling. Recognize that small actions help big environmental changes. Encourage critical thinking about daily disposal habits.	it's contaminated paper and usually NOT recyclable unless clean.) They'll have to decide to discard it or recycle it carefully!
P005	Keep 1.5 Alive	5 Country Feature Cards 5 Problem Scenario Cards Summit Briefing Document (left) Delegates' Discussion Notes (right) Table	Welcome delegates. Following the summit, your team must identify key national challenges and align with global solutions. Decode the final action phrase to complete your mission!	Optional: Background music (ambient summit sounds, soft orchestral) to simulate conference environment	Each country's strengths are visible — but its problems are hidden in plain sight.	truly fits each country's	If the letters don't make sense, your match may be wrong. The correct alignment reveals the true message.		Congratulations, delegates! You have uncovered the summits call to action: KEEP 1.5 ALIVE. Your teamwork has shaped a more sustainable future!	Properly matching each country card with its related problem card, and reading the hidden letters through the mask windows, to form: KEEP 1.5 ALIVE	of limiting elimete change to 1 E°	Ensure each country card has a fixed window for decoding. Back of each problem card should include multiple scrambled characters to enhance challenge. Encourage discussion between players rather than racing through individual matches.

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P006	Water Use	6 Item Cards, A Color Wheel	From heaven's tears to your daily needs, Some choices drain more that others indeed. To unlock the secrets that I withhold, Arrange nature's thirst from large to small. Enter the order as the passphrase below.	Nothing	It flows from your tap, fills your kettle, and keeps gardens green. What precious resource should we never take for granted?	Not all colors are just pretty-they carry meaning and numbers too. What could each shade be trying to tell you?	Each item card has a color-each color has its own spot on the color wheel, and that spot holds a number. Match the color to its place on the wheel to discover how many litres of water are used!		Well done! You've unlocked the water use values - a vital step in understanding how much water goes into everyday items. Remember, water is a precious resource, and excessive use strains our rivers, lakes, and communities. By being mindful of water		Understanding Water Footprints: Players will learn what a water footprint is and how it measures the total water used, both directly (like drinking or washing) and indirectly (like producing food and goods). Recognizing Direct vs. Virtual Water Use: They will be able to	
P007	UV Reveal	3 Mock Product Packages	Welcome to the Greenwashing Challenge! Today, you'll explore the world of eco-friendly claims and discover hos some products might not be as green as they appear. Your mission is to look closely, think critically, and uncover hidden truths. Keep your eyes open-sometimes what you see		Some claims shine only under closer inspection. Maybe you need a special tool to reveal the truth!		Look carefully at the underlined words. Once you have them, enter all the underlined words together as one continuous word-no spaces or punctuation. This will fix the component.		Congratulations! You've uncovered the hidden messages behind the 'eco-friendly' claims. Remember, not everything labeled 'green' or 'sustainable' is what it seems. Always look for real evidence, not just clever marketing, when	140SYNTHETICLIES	Critical Evaluation of Green Claims: Players will learn to question and investigate environmental claims on products, recognizing that some may be misleading or unsubstantiated (greenwashing). Awareness of Greenwashing	
P008	Al Overlord	- Computer - Lockable Box - Coded padlock - Paper with message to overide the	morn. It listens and learns, a tireless guide,	- Mock Al interface. Similar styling to dominos pizza tracker (Dom) Periodic comments from Al in robotic voice such as "how may I help you?", "what would you like to know?"	Look beyond the words	At the end	What a beautiful blue	Sustainance for life	Congratulations! You successfully rebooted the generator. Remember, Al is very useful, but it uses a lot of energy which we can't always see. Everytime you ask Al a question, it uses 2 liters of water.	Prompts = Water	Users will learn to be mindful of how much they are using AI and only use AI when really necessary.	
P009	Generator Chaos	- computer - 10 proper representing parts for the generator - 10 togs containing the following - 10 tags containing the following - 1. material name, 2. source, 3. energy footprint rating, 4. keyword to enter into input field	The manager of the generator has caused chaos in an any meltdown. The machine has a "sustainability flow circuit". You place the components in the correct places in order to resolve the chaos and fix this part of the generator.	- Artwork showing inside of the generator room with flashing red lights - Artwork showing machine technical drawings (blueprints) with 6 input slots for inputting words that are written on tags on physical props - When component correct component is put into correct position in sequence, node light turns green, if opposite, node light turns red.	The system only looks at how the part was made and where it has come from	Imported or mined?	To comply with the generator surcing standards, parts will need to have a low energy footprint.	Recycled or renewable Imimal energy reusable and repairable	buying choices are critical to	Designed for disassembly and reuse - Solar-Compatible Glass Panel — High efficiency, low footprint	Users will learn to think about	