

Docent Tour Worksheet - 12 to 16 years old

Please refer to the 'Loop to Last - Unveiling the Circular Economy' and answer the questions below:

Q1. Which of the following does not belong to the 7Rs principles?

- a. Recover : Using technology to convert waste into energy
- b. Refurbish : Renovating old items to extend their lifecycle
- c. Use : Using energy excessively and leading to high carbon emissions
- d. Repair : Checking if items can be repaired or have parts replaced before discarding them



Q2. Why materials like mycelium, bamboo are considered as more sustainable? (Select all that apply)

- a. These raw materials require fewer resources to grow compared to cotton, animal leather, and polyester fibers
- b. They are usually cheaper
- c. Plant-based fibers cause less pollution when naturally decomposing
- d. Their manufacturing processes are relatively simple



Q3. Matching - Based on the "Smart Packaging" exhibition area, which packaging level do the following materials belong to?



● Cardboard



● Gift bag



● Glass bottle

● Primary packaging

● Service packaging

● Tertiary packaging

Q4. Fill in the blank - Regarding "E-waste in Hong Kong"

In 2023, WEEE · PARK treated about 21,300 tones of waste regulated electrical and electronic equipment (WREE). After detoxification, dismantling, and recycling, these were converted into valuable secondary materials, including iron, copper, aluminum, and plastics, with a recycling rate over _____ %.





Q5. Fill in the blank – Regarding the "Bioresources Showroom"

Black soldier flies can process organic matter up to _____ times their own body weight per day.

Q6. Truth or False – Which of the following statements about Link's sustainable development initiatives are correct? (Select all that apply)

- a. Link Together Initiatives has built butterfly gardens in various Link's properties to enhance urban biodiversity.
- b. Link University Scholarship aims to provide financial support and learning opportunity for the first generation local university students.
- c. Link has installed about 50 plastic bottle recycling machines in its mall, collecting 15.5 million bottles in 2023-24 for recycling.
- d. Link is committed to developing renewable energy generation and has installed solar power systems in over 40 of its Hong Kong properties.

Group Discussion Topics – Please discuss one of the suggested topics below after the guided tour, in the Lab or in the classroom, to start sustainability dialogues in schools and communities.

1. What are the pros and cons of the eco-friendly materials mentioned in the "Green is the New Black" exhibition area?
2. Can bioresources be developed into energy to solve humanity's energy crisis in time?
3. Are environmental initiatives or facilities in your school sufficient? How can they be improved?

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