

WEEK 1: SELF-ASSESSMENT QUIZ 1

Topic: Principles of Circular Design + Recycled Plaster

Instructions: Choose the best answer for each question. (Answers with explanations are provided below.)

1. What is the main difference between linear and circular design?

- A. Linear design prioritizes aesthetics over function
- B. Circular design focuses on maximizing profit
- C. Linear design ends in waste, while circular design keeps materials in use
- D. Circular design uses only recycled materials

2. Which of the following is NOT a principle of circular design?

- A. Design for durability
- B. Use of toxic resins to increase lifespan
- C. Use of safe, renewable inputs
- D. Design for reuse and recovery

3. Why is recycled plaster considered a circular material?

- A. It is cheaper than lime plaster
- B. It can be locally sourced and reused, reducing waste and emissions
- C. It hardens more quickly than traditional plaster
- D. It is stronger than cement

4. What environmental benefit is associated with using recycled plaster?

- A. Increases transportation costs
- B. Produces zero carbon emissions during application
- C. Reduces the need for new material extraction and landfill waste
- D. Allows you to skip surface preparation steps

5. In circular design, what does “design for end-of-life” mean?

- A. Planning for demolition
- B. Choosing materials that will biodegrade or be reused at the end of their life

- C. Focusing on the last phase of a project's budget
- D. Using temporary design solutions

6. Which of the following is a reason Volupte Studio developed finishes with recycled plaster?

- A. It was the cheapest option available
- B. It allows complete creative freedom with no testing
- C. It aligns with our values of low-waste and long-lasting interior surfaces
- D. It eliminates the need for artisan skill

7. Which type of material is prioritized in circular design?

- A. Imported products with certifications
- B. Non-local but widely available industrial materials
- C. Natural, renewable, and locally sourced materials
- D. Single-use, pre-mixed construction products

 **Answer Key + Explanations**

1. **C** – Linear systems typically end in waste; circular systems aim to keep materials in use.
2. **B** – Toxic resins contradict the principle of using safe, renewable inputs.
3. **B** – Recycled plaster reuses site waste and reduces resource extraction and emissions.
4. **C** – It diverts waste from landfills and minimizes the carbon impact of sourcing new material.
5. **B** – This refers to materials that can be reused, composted, or safely reintegrated.
6. **C** – Volupte's finishes are based on aesthetic, ecological, and performance values.
7. **C** – Circular design favors materials that are local, safe, and renewable.