

**New York City College of Technology – City University of New York**  
300 Jay Street, Brooklyn, New York 11201

**Department of Architectural Technology**

PROFESSOR JASON MONTGOMERY

**ARCH 1240            METHODS OF CONSTRUCTION IN ARCHITECTURE**

NAME \_\_\_\_\_ Date: \_\_\_\_\_

QUIZ 9:

1. Name the 2 types of glass based on the manufacturing process:
  
  
  
  
  
  
  
  
  
  
2. Three types of glass in regard to strength are tempered glass, annealed glass, and heat strengthened glass. Put these in order from weakest to strongest.
  
  
  
  
  
  
  
  
  
  
3. Name two types of glass that can be used when safety glass is required.
  
  
  
  
  
  
  
  
  
  
4. Spandrel Glass refers to glass in a particular position in a curtain wall relative to the building's structure. Sketch or describe this position relative to the building's structure.
  
  
  
  
  
  
  
  
  
  
5. Triple glazed windows have improved insulating performance when compared to a double glazed window. What is the primary drawback that limits the use of triple glazed windows?

6. Insulating glass panels must have a good seal to prevent \_\_\_\_\_ inside the airspace.

7. Sketch a double-glazed insulating panel. Label each surface according to convention and indicate the surface where a Low-E coating is typically applied.

8. Name the process where float glass is cooled slowly to avoid inducing stress within the glass:

9. In general, insulated glazing has a higher, lower, or similar insulating value as a typical solid exterior wall construction?

10. For fire rated conditions, architects can specify a material other than glass to use when view, light, and transparency are desired. What is this material?

Extra Credit:

11. Describe an advantage of exterior glass walls for a typical office building in regard to sustainable principles.