HOMEWORK 05 · TOPIC 5

3D CAD rendering: *materials*

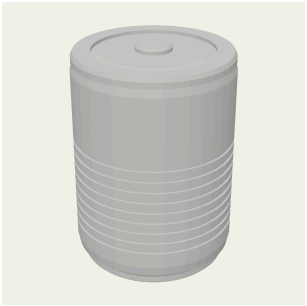
Exam-style questions on the 3D CAD rendering process.

⏱ 30-40 MIN | PENCIL + RUBBER | 12 MARKS

Name

Class Due

The stages in producing a rendered 3D CAD illustration of a Bluetooth speaker are shown.



STAGE 1



STAGE 2



STAGE 3

1 Name the 3D CAD illustration technique used to go from stage 1 to stage 2. 1 mark

2 Name the 3D CAD illustration technique used to go from stage 2 to stage 3. 1 mark

3 Explain one effect that the technique in question 2 has on the final image. 1 mark

KEY WORDS TO USE IN YOUR ANSWERS

MATERIAL | TEXTURE | LIGHT SOURCE | LIGHTING | REALISTIC | HIGHLIGHTS | SHADOWS | NON-SPECIALIST

4 State why a logo used as a decal should be saved as a PNG with a transparent background. 1 mark

5 Describe the difference between a **material** and a **texture** in 3D CAD rendering. 2 marks

6 Explain why the materials in a render should match how the product would really be manufactured. 2 marks

7 A company is deciding between a rendered illustration and an exploded isometric drawing for its website. Explain one advantage and one disadvantage of the rendered illustration. 2 marks

8 State the file type you would export from your CAD software to open in RenderClass. 1 mark

9 A plain grey CAD model has been made to look like wood. State the technique used. 1 mark

Total _____ / 12