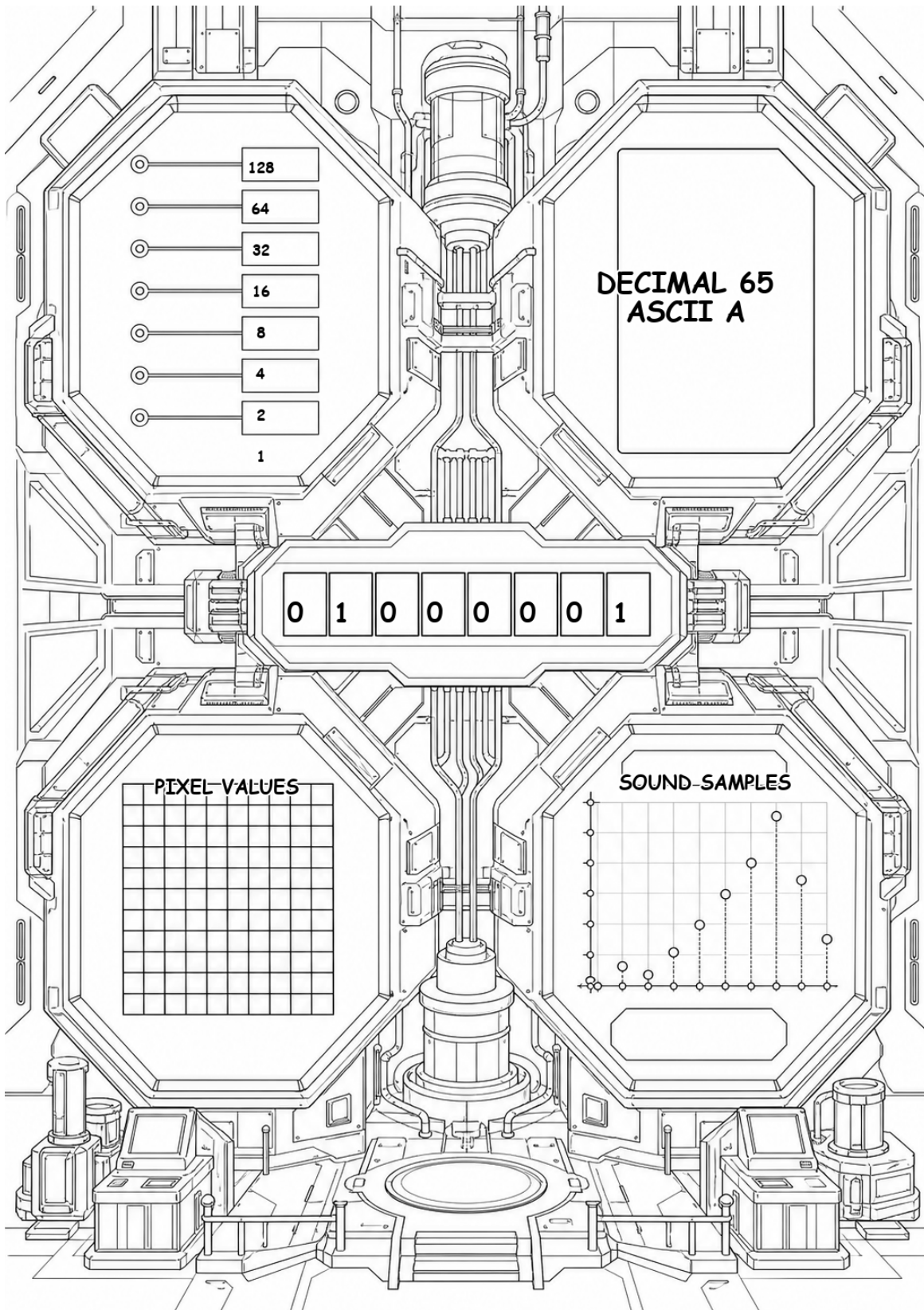


Binary Data: One Pattern, Many Meanings

KS3 / Year 9 - Computing

Colour the binary laboratory. Compare how bit patterns can represent numbers, text, pictures and sampled sound when interpreted with agreed rules.



Binary Data: One Pattern, Many Meanings

KS3 / Year 9 - Computing

Colour the binary laboratory. Compare how bit patterns can represent numbers, text, pictures and sampled sound when interpreted with agreed rules.

Parent & Teacher Guidance

Curriculum focus

Topic: Binary data. Develop accurate observation, subject vocabulary and evidence-based explanation. Mapped scope: KS3 Computing: binary number representation and operations; how text, sound and pictures are represented and manipulated digitally as binary digits..

Before you begin

Review the picture together and ask the learner what they already notice about Binary data. Read the activity aloud, explain unfamiliar vocabulary, and agree which details need special attention.

Solo activity

The learner can complete the colouring independently, then use the finished page to explain three details linked to Binary data. Encourage accurate colour choices where they carry meaning, but allow creative choices elsewhere.

Group activity

Give pairs or small groups different areas to inspect. Ask them to agree on evidence before colouring, compare their findings, and present one curriculum fact to the class. Finish with a whole-group check against the guidance below.

Questions to guide discussion

What evidence can you see? Which feature is most important and why? How does one part connect to another? What new fact about Binary data can you explain using the picture?

Answers and checking

No fixed answer is required. Accept well-supported observations that match the curriculum focus and visible evidence.

Learning record and next steps

☐ Completed the colouring

☐ Explained key vocabulary

☐ Completed the activity

☐ Used visible evidence

Evidence noticed / vocabulary used

Next step:
