

Exercise walk-through

Digital Art and Design ■ 3.6

eXercise

You must be able to

- explain **layers** 图层 and non-destructive editing
- distinguish **raster** 位图 from **vector** 矢量 images
- apply the same elements and principles digitally
- state one strength of digital media

Method — Layers

Digital tools use **layers** — stacked, editable sheets — so parts can be changed without affecting the rest (non-destructive editing).

Method — Raster vs vector

Raster images are grids of pixels (photos; they blur when enlarged). **Vector** images are math-defined shapes (logos; they scale cleanly).

Method — Same principles

The elements and principles still rule — composition, value, colour, and emphasis matter as much on screen as on paper.

Practice 2.1 ■ 1 mark

An image made of math-defined shapes that scales without blurring is

A raster

B vector

C charcoal

D intaglio

Solution 2.1

Method: Raster vs vector

A raster

B vector



C charcoal

D intaglio

Worked steps

B. math-defined, cleanly scalable = vector.

Practice 2.2 ■ 2 marks

Explain one advantage of working in layers.

Solution 2.2

Worked steps

each part can be edited separately **B1** without altering the rest — non-destructive, flexible editing **B1**.

Practice 2.3 ■ 1 mark

State when you would choose raster over vector.

Solution 2.3

Method: Raster vs vector

Worked steps

for photographs or richly detailed painterly images **B1**.