Draw Sugar Granules and Cubes: Shape, Texture, and Practice

Original tasks 1, 2, 3, 4 / complete keys

Task 1

Draw a single granule with three visible facets. Label the lit facet with a short stroke.

Answer: An irregular polygon with three sides visible and one short stroke on the brightest facet.

Reason: A granule reads as faceted when at least two planes meet at an angle; one highlight confirms light direction.

Check: Confirm the shape has three distinct sides and only one highlight stroke.

Task 2

Draw a cube using vertical front edges and two parallel receding pairs at the same angle. Round only the corners.

Answer: A box with a rectangular front, parallelogram top and side, parallel receding pairs, and softened corners.

Reason: Parallel receding pairs create a consistent isometric read; rounding only corners preserves block structure.

Check: Trace each receding line; pairs must be parallel. Check that straight edges are not bowed.

Task 3

Draw a cluster of six granules with at least two gaps and texture on only two granules.

Answer: Six irregular polygons, two visible gaps, and short strokes on two facets.

Reason: Gaps separate pieces; limited texture prevents a muddy mass.

Check: Count gaps and textured granules; gaps must be at least two and textured granules exactly two.

Task 4

Draw two stacked cubes sharing one top face, with a scale note that one cube equals four granule units.

Answer: Two cubes aligned so the upper cube sits on the lower top face; a written scale note of 1 cube = 4 units.

Reason: Shared face shows stacking logic; a scale note keeps units consistent.

Check: Verify the shared face is drawn once and the scale note matches the stated ratio.

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Source rubric / reflection

- [ ] Granules are irregular polygons, not circles, with visible facets.
- [ ] At least one gap remains between granules in the cluster.
- [ ] Cube shows three faces with parallel receding edge pairs.
- [ ] Cube corners are rounded but edges remain straight.
- [ ] Texture marks appear on a few facets only, not all.
- [ ] Scale is consistent within the drawing.

Reflection: What did you check, what did you change, and what will you try next?