

Cutting a $3 \times 3 \times 3$ cube.

Submission deadline: September 28th 2026

A $3 \times 3 \times 3$ cube can be cut into 27 unit cubes (each $1 \times 1 \times 1$) in six cuts with a large saw. However, if after every cut you can rearrange the pieces before cutting, can you do it in less than 6 cuts? If so, how? And if not, why?

