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## MATH-SOL-ENG

## Constant width solids

**Contents** 3 wooden solids, instruction booklet

Material wood, paper

**Box** cardboard box  $16 \times 6 \times 4,5$  cm

Weight 100 g



These constant width solids behave like spheres. This is possible because, independent of their peculiar shape, its diameter remains the same at any point. This can be demonstrated by positioning a flat object, such as a hardcover book, on top of the solid where it will then roll as if placed on a sphere. Furthermore, these wonky shapes don't roll away.

The shape is based upon a revolution of the Reuleaux triangle. Sold in sets of 3 pieces.

The attached booklet describes some of its applications, such as the Wankel engine that uses a rotary design or the drill bit that makes square holes.

