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Helix 199800

Helix Oxford Geo Maths Set - Instruction Manual

Model: 199800 | Brand: Helix

Introduction

This manual provides comprehensive instructions for the Helix Oxford Geo Maths Set. Designed for accuracy and ease of use, this set contains essential mathematical instruments for students and professionals. Please read through this manual to understand the proper use and care of your new maths set.

What's Included

Your Helix Oxford Geo Maths Set includes the following components, housed in a durable metal tin:

- Metal embossed tin with Geo design
- 45° Set Square
- 60° Set Square
- 15cm Ruler
- 180° Protractor
- 10mm Lettering Stencil
- Metal Self-Centring Compass with 9cm Pencil
- Pencil Sharpener
- Eraser
- Timetable and Maths Sheet

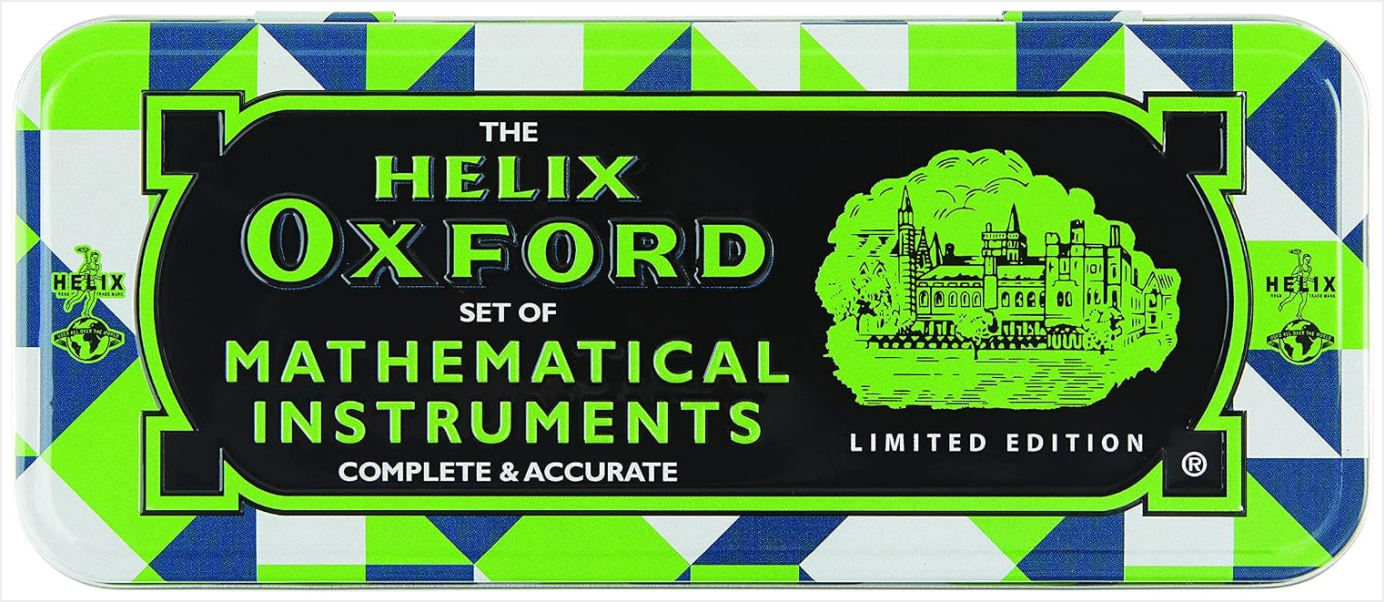


Image: All components of the Helix Oxford Geo Maths Set, including the tin, ruler, protractor, set squares, compass, pencil, sharpener, eraser, and stencil, displayed outside their packaging.

Setup and Getting Started

1. **Unpacking:** Carefully remove the maths set from its cardboard hanging pack. The metal tin is designed to protect the instruments.
2. **Opening the Tin:** The tin has a hinged lid. Gently lift the lid to access the contents.
3. **Familiarization:** Take out each instrument and familiarize yourself with its shape and purpose.



Image: The Helix Oxford Geo Maths Set in its green and blue retail packaging, showing the metal tin inside.

Operating Instructions

Using the Compass

The self-centring compass is used for drawing circles and arcs. It comes with a 9cm pencil already inserted.

- **Adjusting Radius:** Hold the compass by its top and gently spread or close the legs to achieve the desired radius for your circle.
- **Drawing:** Place the pointed end firmly on the paper at the center of your intended circle. Rotate the compass from the top, allowing the pencil end to draw the circle.

Using Rulers and Set Squares

The 15cm ruler and 45°/60° set squares are used for measuring lengths and drawing straight lines and specific angles.

- **Measuring:** Align the '0' mark of the ruler with the starting point of the object you wish to measure. Read the length at the endpoint.
- **Drawing Straight Lines:** Place the edge of the ruler or set square on the paper and draw along it with a pencil.
- **Drawing Angles:** Use the set squares to draw 45°, 60°, and 90° angles directly. Combine them to create other angles.

Using the Protractor

The 180° protractor is used for measuring and drawing angles.

- **Measuring Angles:** Place the protractor's center mark on the vertex of the angle. Align the base line with one arm of the angle. Read the angle measurement where the other arm crosses the protractor's scale.
- **Drawing Angles:** Draw a base line and mark a vertex. Place the protractor's center on the vertex and align the base line. Mark the desired angle on the scale, then remove the protractor and draw a line from the vertex through the mark.

Using the Lettering Stencil

The 10mm lettering stencil helps in drawing consistent and neat letters and numbers.

- **Placement:** Place the stencil flat on your paper where you want to write.
- **Tracing:** Use a sharp pencil to carefully trace the inside of the desired letter or number cutouts.



Image: An open Helix Oxford Geo Maths Set tin, revealing the protractor, compass, and lettering stencil neatly stored inside.

[redacted]

Video: A closer look at the Helix Oxford Geo Maths Set, demonstrating the unboxing of the tin and the use of the lettering stencil to draw letters.

Maintenance

- **Cleaning:** Wipe instruments with a soft, dry cloth to remove pencil marks or dust. Avoid abrasive cleaners.
- **Storage:** Always store all components back in the metal tin after use to prevent loss or damage. The tin protects the instruments from bending or breaking.
- **Pencil Care:** Keep the pencil in the compass sharpened using the provided sharpener for precise lines. Replace the pencil when it becomes too short.



Image: The closed metal tin of the Helix Oxford Geo Maths Set, featuring its distinctive green and blue geometric pattern.

Troubleshooting

Problem	Possible Cause	Solution
Compass pencil lead breaks frequently.	Excessive pressure during drawing or dull sharpener.	Apply lighter pressure. Ensure the sharpener is clean and sharp. Replace pencil if necessary.
Instruments are difficult to remove from tin.	Tight fit for secure storage.	Gently pry them out. Over time, they may become easier to remove.
Lines drawn are not straight.	Ruler/set square not held firmly or pencil not sharp.	Ensure the instrument is pressed firmly against the paper. Use a sharp pencil.

Specifications

Feature	Detail
Brand	Helix
Model Number	199800
Color	Green Geo Edition
Item Weight	5.3 ounces
Package Dimensions	7.76 x 3.11 x 0.87 inches
Manufacturer	Maped Helix

Feature	Detail
First Available Date	January 24, 2022

Warranty and Support

Helix products are manufactured to high standards. For any issues or inquiries regarding your Helix Oxford Geo Maths Set, please contact the retailer or manufacturer directly. Keep your purchase receipt as proof of purchase.

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