

MODS Resources

This is a compilation of resources that any MO students or teachers might find helpful. If you have any other suggestions, questions, or comments, please DM these to the bot Staff Mail #8249 [UserID: 562766760915369994] in the Mathematical Olympiads Discord Server: <https://discord.gg/94UnnAG>.

Key:

Highly Recommended

Paid resource

Meta-resources:

- **Geoff Smith:** [Advice for Young Mathematicians](#)
 - Evan Chen: [Olympiad handouts](#)
 - Yufei Zhao: [Olympiad handouts](http://yufeizhao.com/olympiad/uts)<http://yufeizhao.com/olympiad/uts>
 - Alexander Bogomolny: [Cut the Knot - Interactive Mathematics Miscellany and Puzzles](#)
 - [Handouts from national camps and elsewhere](#)
-

Resources:

All topics

- [Olympiad stuff you should know](#) (Markus#7658 and Joe 1#3988, 2019)
- [Problem Solving Tactics](#) (Angelo Di Pasquale, Norman Do, and Daniel Mathews, 2014)
- [Mathematical Olympiad Dark Arts](#) (Adam P. Goucher, 2012)
- [The Art and Craft of Problem Solving](#) (Paul Zeitz, 2007)
- [Putnam and beyond](#) (Razvan Gelca and Titu Andreescu, 2007)
- [Problem solving strategies](#) (Arthur Engel, 1997)

Combinatorics

- [Olympiad Combinatorics Book](#) (Pascal96 (AoPS), 2018)
- [Concrete Mathematics: A Foundation for Computer Science](#) (R. Graham, D. Knuth, O. Patashnik; 1994)

Geometry

- [*Euclidean Geometry in Mathematical Olympiads*](#) (Evan Chen, 2016)
- [*A Beautiful Journey Through Olympiad Geometry*](#) (Stefan Lozanovski, 2016. Updated 2020)
- [*The Method of Moving Points*](#) (Vladyslav Zveryk, 2019)
- [*100 Geometry Problems: Bridging the Gap from AIME to USAMO*](#) (David Altizio, 2014)

Number Theory

- [*Modern Olympiad Number Theory*](#) (Aditya Khurmi, 2020)

Acknowledgements:

Resource Authors:

Geoff Smith, Evan Chen, Yufei Zhao, Alexander Bogomolny, Adam P. Goucher, Paul Zietz, Razcan Gelca, Titu Andreescu, Arthur Engel, Pascal96 (AoPS), Angelo Di Pasquale, Norman Do, and Daniel Mathews, Vladyslav Zveryk, Markus#7658 (Discord), Joe 1#3988 (Discord), and many others.

Resource Suggestions:

Tony Wang, nya10, Sharky Kesa, Markus, Jazza.