

MATHEMATICS IN THE MODERN WORLD (YouTube Links)

1. Mathematics in Nature and the World

- <https://youtu.be/kkGeOWYOFoA?si=jyd9beThtgMPk9pJ>
- <https://youtu.be/BBmYdDlmdcU?si=gT64smDpGLiBSqo>
- https://youtu.be/Jk_1d4mbVyQ?si=ry93x8KdF_hbXOko
- <https://youtu.be/MOMfJ3TOSBs?si=Pdev6zjsw6bLL7oL>
- <https://youtu.be/YXlgwwYu1p0?si=Pln2kVccToZ7PBby>

2. Mathematical Language and Symbols

2.1 Characteristics of Mathematical Language

- <https://youtube.com/playlist?list=PL29CVj9W5US348jV04N005kN9cNXv6a7Y&si=Sx7sa5AxAaWvZbaj>

2.2 Sets, Functions, Relations, and Binary Operations

- <https://youtube.com/playlist?list=PL29CVj9W5US1vZ4F3NjuxZPRAcSLbv3w-&si=LXJoVP3xCCHavBC6>
- <https://youtube.com/playlist?list=PLDDGPdw7e6Ag1ElznZ-m-qXu4XX3A0clz&si=ziwnt2YSB2sNXoXw>
- https://youtube.com/playlist?list=PL5pdglZEO3Ngsg_BNLAvp4OUKHRilhiijw&si=dxBiozRd_TLCSbij

2.3 Elementary Logic

- <https://youtu.be/pDAleulq0MY?si=KUXLZklPLPgXJcPL>
- <https://youtu.be/TCBu8PD4Lls?si=C47Hv6xvEDiAxfec>
- <https://youtu.be/1lepFL6CNLg?si=Xtlc-pfYMLmLfz9j>

3. Problem Solving and Reasoning

3.1 Inductive and Deductive Reasoning

- https://youtube.com/playlist?list=PLD9vkf6l7zSZ41Lub2z5ag_719jG_31ld&si=pBl58hlurGX_P8hH
- <https://youtube.com/playlist?list=PL29CVj9W5US0UXhyOsoEhDQ0ufvC-7ZJH&si=WuTrPP8d3KoyKA6P>

3.2 Problem Solving Strategies

- https://youtu.be/0OobMub0bAg?si=_JaXSZTzWs4ctfTR
- <https://youtu.be/7lRxhreNep0?si=0CKasITFRaJdl9eP>
- https://youtu.be/oYaaZCJaVvA?si=vCLYOfvjm_PdjtWc
- <https://youtube.com/playlist?list=PLPPsDIdbG32B7Ny272AvLaWhULwn0tWhA&si=F94mmE3HSDQA6tO0>

3.3 Recreational Problems

- <https://youtu.be/9HUBC-tFE9E?feature=shared>

- https://youtu.be/Wym6xreCa2k?si=qlSGMs_iHWqbTxOF

4. Data Management

4.1 Measures of Central Tendency

- <https://youtu.be/B1HEzNTGeZ4?feature=shared>
- <https://youtube.com/playlist?list=PL29CVj9W5US1JZK8rr-WOaP4UAdFkzvX&si=URaz520DZuPg744w>

4.2 Measures of Dispersion

- https://youtube.com/playlist?list=PL29CVj9W5US2Uk9RrUg6XvmwfQlRt_hnqh&si=_iqLW1hqtGfa4eqa
- <https://youtu.be/5cFJyITZhLM?si=EAcTmHed7sBbJ6Z9>
- <https://youtu.be/FfXeRu2VkTo?si=qy77-sEetmdPRFlw>

4.3 Measures of Relative Position

- https://youtu.be/UzyZLV_rPcY?si=-dtDhNHfmlz8r0ZL
- <https://youtu.be/XyVI8lfgMts?si=8Ccw48L3m78d-wK1>
- <https://youtu.be/XLQULafanVw?si=zjiTjwg0AJ3SUn6h>
- https://youtu.be/y5iAygQLVeg?si=KWVdXlqq7JRLl_pe

4.4 Normal Distribution

- https://youtu.be/-SfYlVgZO8E?si=BXQZ17yjdobx_47-
- <https://youtu.be/U4ZPznNU-EY?si=RBAhpBYUz9D8us1m>
- https://youtu.be/CjF_yQ2N638?si=yuB6KY4u5fav5Qzg
- <https://youtu.be/rBjft49MAO8?si=DFzMREHoHL516y7w>

4.5 Linear Regression and Correlation

- <https://youtu.be/mKsJ1QKsVXk?si=cbVGrFY5DALnZOLN>
- <https://youtu.be/WWqE7YHR4Jc?si=OkRPHvVMIEj23smP>
- <https://youtu.be/FLJ0yYetywE?si=eePgZhc3sq9bgDNR>
- https://youtu.be/nk2CQITm_eo?si=FUB5fa1EZuNX7uqK
- <https://youtu.be/JkMejZZPyvo?si=J1V2z0AArMuARaIQ>
- https://youtu.be/xTpHD5WLuoA?si=pT1rIH67pl_1wkbb
- <https://youtu.be/TMePNsXTVZI?si=5ouUThRNNyBlCyn7>