

#1 Essentials of math modeling: Overview of math modeling process

https://www.youtube.com/watch?v=FeiANYW2hMw&list=PLf_ipOSbWC87csMGb7Si8g6Rk_tjaPJ_K&index=1

#2 Essentials of math modeling: Basic programming in Matlab

https://www.youtube.com/watch?v=LRBpFPCb6As&list=PLf_ipOSbWC87csMGb7Si8g6Rk_tjaPJ_K&index=2

#3 Essentials of math modeling: Intro to data analysis with Matlab and Excel

https://www.youtube.com/watch?v=vPDBxDzt58Y&list=PLf_ipOSbWC87csMGb7Si8g6Rk_tjaPJ_K&index=3

#4 Essentials of math modeling: Model for disease spread, difference, and differential equations

https://www.youtube.com/watch?v=QAX9kflxvoM&list=PLf_ipOSbWC87csMGb7Si8g6Rk_tjaPJ_K&index=4

#5 Essentials of math modeling: Probabilistic models

https://www.youtube.com/watch?v=fZyJIZV-ZZ0&list=PLf_ipOSbWC87csMGb7Si8g6Rk_tjaPJ_K&index=5

#6 Essentials of math modeling: Linear regression and statistical ideas

https://www.youtube.com/watch?v=9NW8eR-sEJ8&list=PLf_ipOSbWC87csMGb7Si8g6Rk_tjaPJ_K&index=7 sensitivity testing at 41:30 part of video

Other good videos:

Exponential growth and epidemics (uses initial COVID data from China); best explanation of exponential growth I've seen

<https://www.youtube.com/watch?v=Kas0tlxDvrg>

Free online graphing software

<https://www.intellspot.com/best-free-graphing-software/>