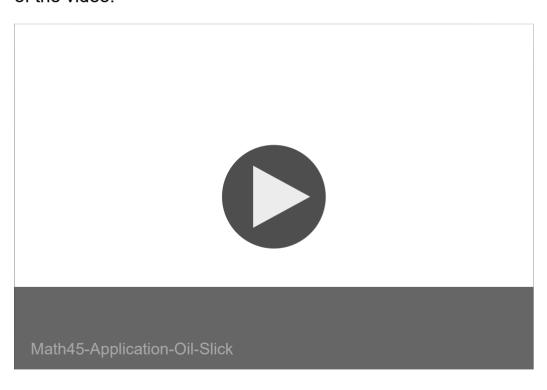# Modelling an oil spill from partial data -- 1st order linear DE ⚡

How might one come across a 1st order linear differential equation in the real world!?!?

In this application example, we briefly look at how one could use some partial data collected to model a scenario.

We will do this with help from SIMIODE, an open resource funded by the NSF, which creates education material for modeling differential equations.

Please watch the following video (a pdf of the slides is given below), which provides a complete description of the problem and process. However, keep in mind that some of the initial ideas of analyzing the data typically take much longer than just a quick pause of the video!

Math45-Application-Oil-Slick

[**A pdf of the slides in the video (https://csus.instructure.com/courses/66043/files/7010598/download?wrap=1)**]