

INTERMODULAR DESCRIPTION SHEET:	UMAP Unit 767
TITLE:	The Mathematics of Scuba Diving
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MATHEMATICAL FIELD:	Beginning calculus
APPLICATION FIELD:	Physiology
TARGET AUDIENCE:	Students in beginning calculus
ABSTRACT:	Exponential solutions of differential equations are used to construct decompression schedules for dives of various durations to various depths.
PREREQUISITES:	A knowledge of differential and integral calculus related to exponential functions.
RELATED UNITS:	Unit 676: <i>Compartment Models in Biology</i> , by Ron Barnes. <i>The UMAP Journal</i> 8 (2): 133–160. Reprinted in <i>UMAP Modules: Tools for Teaching 1987</i> , edited by Paul J. Campbell, 207–234. Arlington, MA: COMAP, 1988.

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