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## An Introduction to Mathematical Modelling

1 Introduction 1.1 What is  
mathematical modelling? Models  
describe our beliefs about how the  
world functions. In mathematical  
modelling, we translate those beliefs  
into the language of mathematics. This  
has many advantages 1. Mathematics is  
a very precise language. This helps us to



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formulate ideas and identify underlying assumptions. 2.

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that we'll use to build or verify our model. Then it derives a reasonable model from first principles in (physics, biology, economics, etc).

## 1.1.3-Introduction: Mathematical Modeling

Mathematical models are increasingly used to guide public health policy decisions and explore questions in infectious disease control. Written for readers without advanced mathematical skills, this book provides an excellent introduction to this exciting and growing area.

Amazon.com: An Introduction to Mathematical Modeling: A ...

So there are four possibilities: (1) The mean period to produce offspring is much greater than thirty years, (2) the mean number of offspring per couple is

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much closer to two than three (3) The model is just awful for reasons not immediately apparent or (4) The human race is much younger than two million years.

An introduction to mathematical modeling

An introduction to Mathematical modeling Edward Bender. This is the problem (step 1 in Section 1.3). Let the exogenous (independent) variables be the net reproduction rate  $r$  per individual, the time  $t$ , and the size of the population at  $t = 0$ . The net reproduction rate is the birth rate minus the death rate.

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