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A mathematical model for the evolution of the (still unspecified) quantity  $a_n$  could take the form  $a_{n+1} = \alpha a_n + \beta$ . In words, the new value is a scalar multiple

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of the old value  $\alpha$  set by some constant  $\beta$ . This model is common, e.g., it is used for modeling bank loans. One might amend the model to make the dependence depend on more terms and to include

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## **MATHEMATICAL MODELING A**

### **Comprehensive Introduction**

1 Introduction 1.1 What is  
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Models describe our beliefs  
about how the world  
functions. In mathematical  
modelling, we translate



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those beliefs into the language of mathematics. This has many advantages 1. Mathematics is a very precise language. This helps us to formulate ideas and identify underlying assumptions. 2.

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A mathematical model is a mathematical relation that describes some real-life situation. Mathematical models are used to solve

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many real-life situations  
like:

- launching a satellite.
- predicting the arrival of the monsoon.
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We begin with a definition based on the previous discussion: A mathematical model is an abstract, simplified, mathematical construct related to a part of reality and created for a particular purpose.

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