Mathematical Modelling

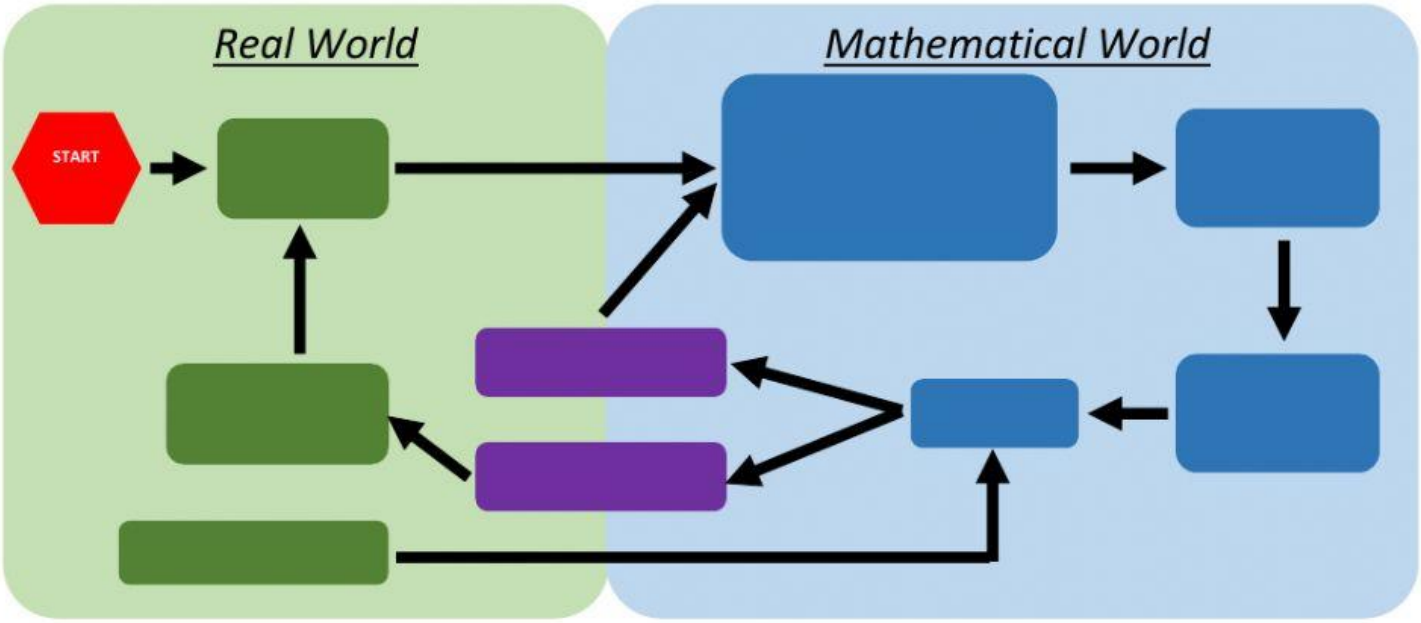
Drag the correct word(s) to complete the following sentences correctly.

traffic flow systems | equations | decisions | real-world | problems | understanding | graph | mathematical

- A mathematical model describes a _____ scenario using _____ language.
- It can be used to solve _____, increase _____ or to make _____.
- Mathematical models can be a set of _____, a diagram or a _____.
- One example of a mathematical models in use is _____.

Drag the correct word(s) to complete the mathematical modelling process below.

formulation | in agreement | model | real-world data | inform | solution | evaluation | real-world problem | not in agreement



LIVEWORKSHEETS

Solve the following problem using mathematical modelling.

A school is preparing a trip for 400 students. The company who is providing the transportation has 10 buses of 50 seats each and 8 buses of 40 seats, but only 9 drivers available. The rental cost for a large bus is 800 and 600 for the small bus. Calculate how many buses of each type should be used for the trip for the least possible cost.

The school should rent _____ **large buses** and _____ **small buses**.

LIVEWORKSHEETS