**Conclusion**

So what is a model for?

Now we have seen a number of situations and probably now you have been convinced that modelling is a very nice..

The goals of a mdel tend to fall under three categories

**Prediction:** Some models make predictions about physical systems.

Climate prediction in future

**Design:** Models are useful for engineering design, especially for testing the feasibility of a design and for optimization. For example, in Exercise 12.6 you were asked to design the golf swing with the perfect combination of launch angle, velocity and spin.

**Explanation:** Models can answer scientific questions. For example, the Lotka- Volterra model in Section 10.4 offers a possible explanation of the dynamics of animal populations systems in terms of interactions between predator and prey species.