# Gears Task 3 – Transmission gearing (I)

## Construction task

Build a gear drive in which the output axle turns twice as fast as the input axle (your crank).

## Topic question

What determines how fast the output axle turns in comparison to the input axle?

## Experimental task

1. Experiment with different combinations of toothed gears. How can you calculate the rotational speed of the output axle (in comparison to the input)?

2. Can you build this kind of transmission gearing, in which the output axle turns faster than the input, using another gearing principle?