

Name..... Group..... Mark.....

8.14 - Cam Toy: Gears

What are the disadvantages of pulleys?

Gears overcome some of the problems of pulleys. Gears are like pulleys with teeth. Simple gears are called spur gears.

Use models to investigate gears. Record your observations in the boxes by cutting and pasting the printed gears. Label the gears and show **directions**. Label the **driver gear**, the **driven gear** and **idler gear**.

1. Same direction, same speed.	2. Same direction, different speed.
3. Opposite direction, same speed.	4. Opposite direction, different speed.

The gear ratio/velocity ratio is the ratio of teeth

Write the ratios in the boxes above.