

# GEARS

V.Ryan © 2000 - 2009

On behalf of The World Association of Technology Teachers

## W.A.T.T.



World Association of Technology Teachers

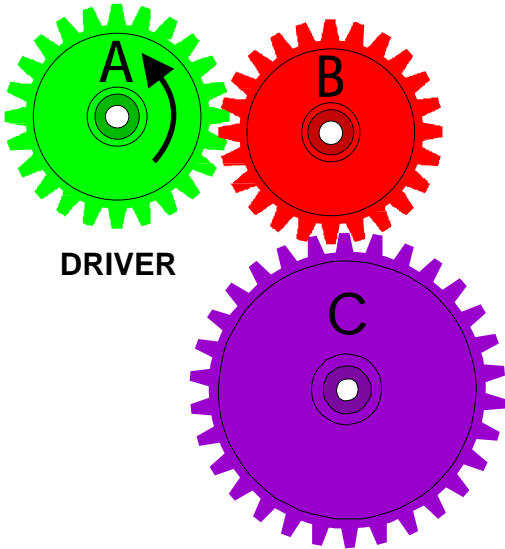
The 'Exercise' can be printed and used by teachers and students. It is recommended that you view the website section 'Graphics' ([www.technologystudent.com](http://www.technologystudent.com)) before attempting the design sheet.

THESE MATERIALS CAN BE PRINTED AND USED BY TEACHERS AND STUDENTS.  
THEY MUST NOT BE EDITED IN ANY WAY OR PLACED ON ANY OTHER MEDIA INCLUDING WEB SITES AND INTRANETS.  
NOT FOR COMMERCIAL USE.  
THIS WORK IS PROTECTED BY COPYRIGHT LAW.  
IT IS ILLEGAL TO DISPLAY THIS WORK ON ANY WEBSITE/MEDIA STORAGE OTHER THAN [www.technologystudent.com](http://www.technologystudent.com)

# GEAR TRAINS

V.Ryan © 2009 World Association of Technology Teachers

This is a good example of a 'gear train'. A gear train is usually made up of two or more gears. The driver in this example is gear 'A'. If a motor turns gear 'A' in an anticlockwise direction:



1. Which direction does gear 'B' turn ?

\_\_\_\_\_

2. Which direction does gear 'C' turn ?

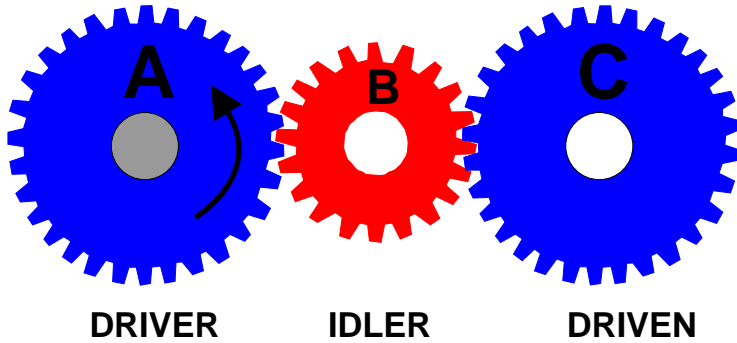
\_\_\_\_\_

3. Does gear 'C' revolve faster or slower than gear 'A' ? Explain your answer.'

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



4. The gear train seen opposite is composed of three gear wheels. What is the purpose of the IDLER gear?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. Gear 'A' rotates in an anticlockwise direction. What is the direction of rotation of the IDLER and the DRIVEN gears?

IDLER: \_\_\_\_\_

DRIVEN: \_\_\_\_\_

6. In the space below draw the gear train seen in question 4 as a simple drawing, using a compass (no need to draw each tooth).