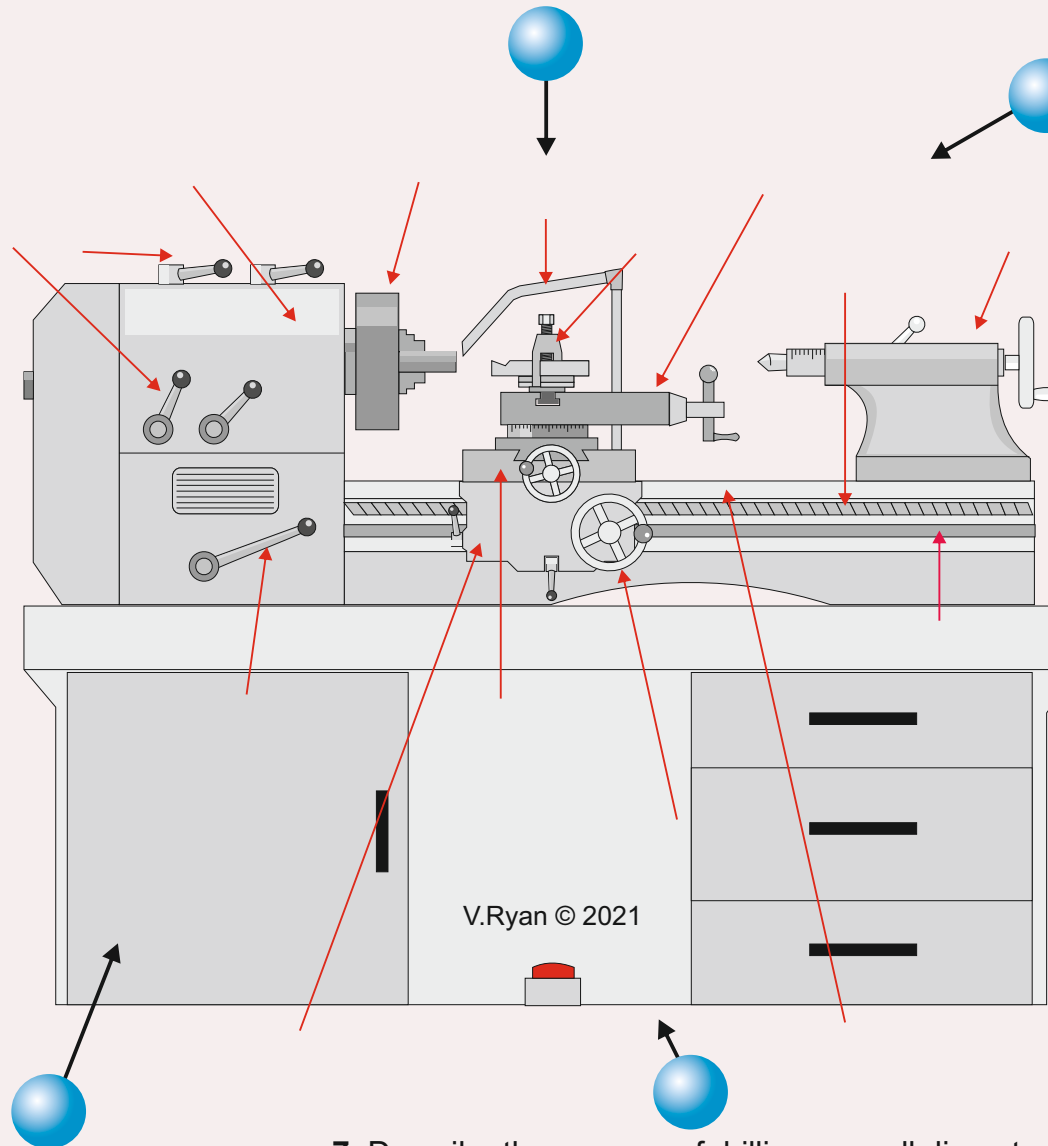


1. Label the parts of the centre lathe, as indicated by the 'red' arrows.



EXTENSION WORK

Describe health and safety factors related to using the centre lathe.

2. What 'arrangement' is found inside the headstock? What inside the headstock are changed, to alter the speed of rotation of the chuck?

3. Paste an image that shows 'some of the equipment used with the centre lathe'.

4. Describe the technique called 'facing off'. Explain how it is achieved. Paste an image showing the technique.

5. How is a 'short' taper achieved on the centre lathe? Include an image or a sketch of the material, set up in the lathe chuck.

6. What is a 'long' taper and how is this produced on a centre lathe? Include images / sketches to support your answer.

7. Describe the process of drilling a small diameter hole, in a piece of round section steel, using the centre lathe. Remember to include the use of a centre drill. Include images / sketches.

11. What is 'knurling'? Paste an image of a knurling tool. Sketch three common patterns produced by knurling tools.

10. Sketch a selection of lathe cutting tool profiles. Name each profile.

9. What is 'automatic traverse'? Describe an example of its use.

8. What equipment is required when drilling large diameter holes? Paste a labelled image of the equipment.