

EXTENSION WORK

What is 'cold working (plastic deformation) of metals'? Include examples.

1. Draw a labelled diagram, of a typical brazing hearth.

2. Describe the brazing hearth and associated equipment, such as the extractor, torch, fire brick etc.....

3. With notes and sketches, describe the procedure for 'brazing' together, two pieces of thin sheet steel.

4. Name the safety clothing / equipment that must be worn, when brazing. List safety instructions for brazing.

5. Describe the 'hardening and tempering' process, as carried out on a brazing hearth. Include notes and sketches.

6. What is 'case hardening'?

7. Describe each stage of 'case hardening'. Include notes and sketches

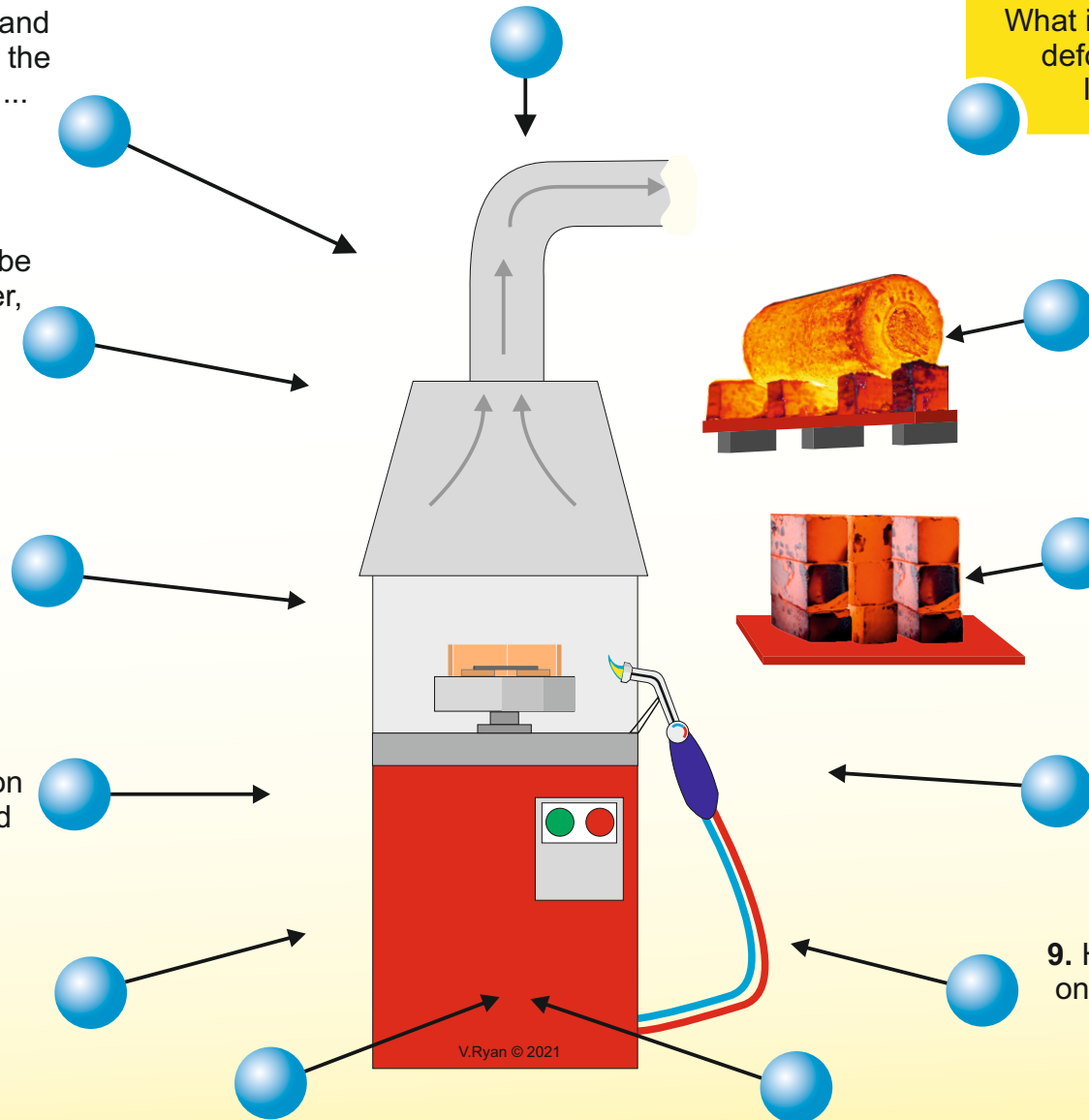
8. Why are metals sometimes 'annealed'?

12. Describe the commercial 'annealing' of steel. Include either a sketch, or paste an image of the process.

11. What is 'normalising'? Paste or sketch an image of the process.

10. Compare the physical properties of 'hardened' metals and 'annealed' metals.

9. How is aluminium 'annealed' on a brazing hearth. Include a sketch of the process.



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