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All activities and resources have been designed to compliment primary curriculum objectives.

Activity: Understanding the engine room– the Hornsby Ackroyd oil engine

LKS2 Art & Design

N.C. Objective: Pupils should be taught:

- To improve their mastery of art and design techniques, including drawing with a range of materials (pencil)
- About great designers in history (technical artists)



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Activity One

The Hornsby Ackroyd Engine:

The Hornsby-Ackroyd oil engine, fitted into the Engine Room in the LV50 at the start of the 20th Century, was named after its inventor Herbert Akroyd Stuart and the manufacturer Richard Hornsby & Sons. It was the first successful design on an internal combustion engine.



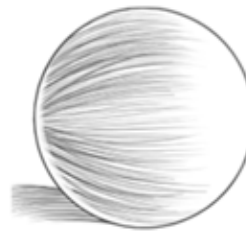
Look at the pictures and photos of the Hornsby Akroyd engine on the next page.

Using a drawing pencil, draw a picture of the engine. Think about:

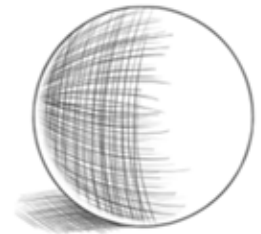
- Shading
- Pencil force
- Edges (heavier pencil)
- Hatching / stippling / ink wash techniques



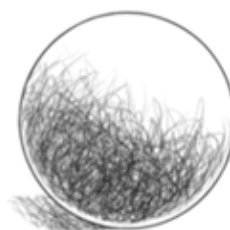
Hatching



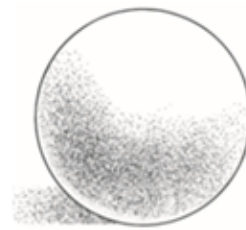
Contour Hatching



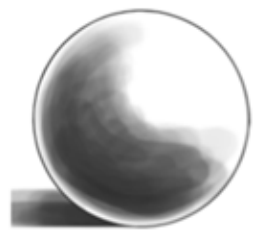
Crosshatching



Random Hatching



Stippling



Ink Wash



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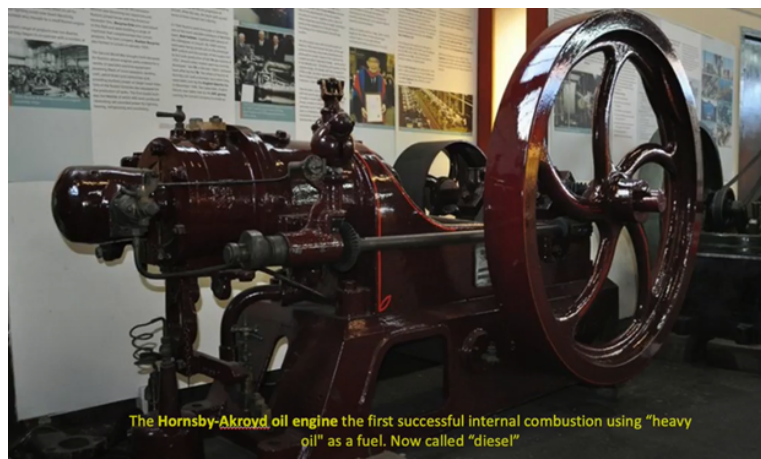
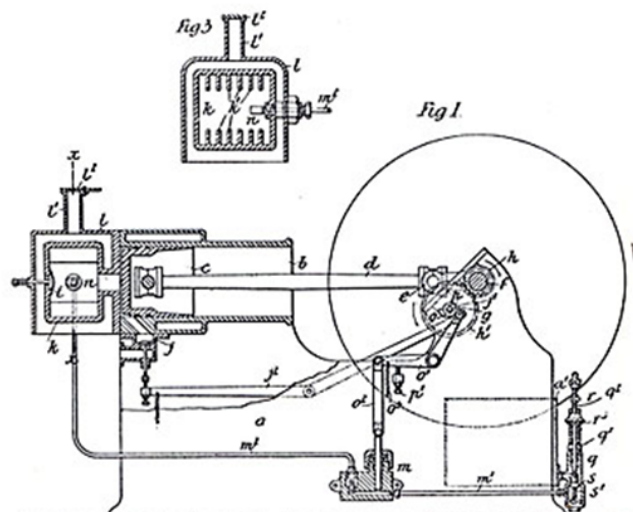
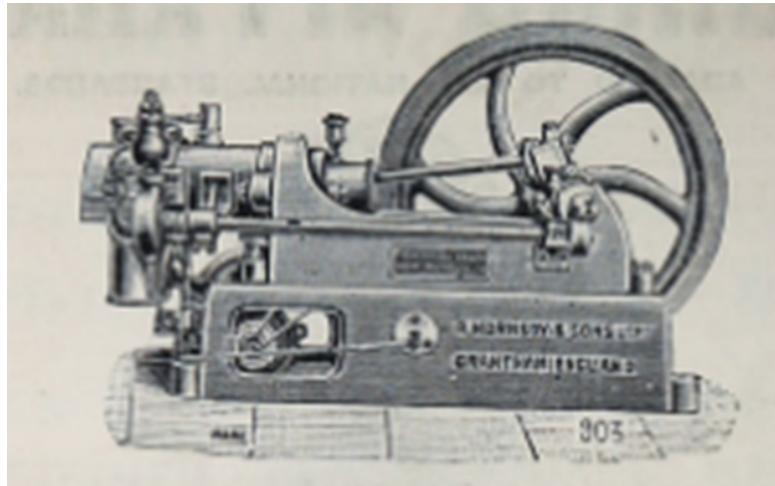


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The Hornsby-Akroyd oil engine the first successful internal combustion using "heavy oil" as a fuel. Now called "diesel"



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