

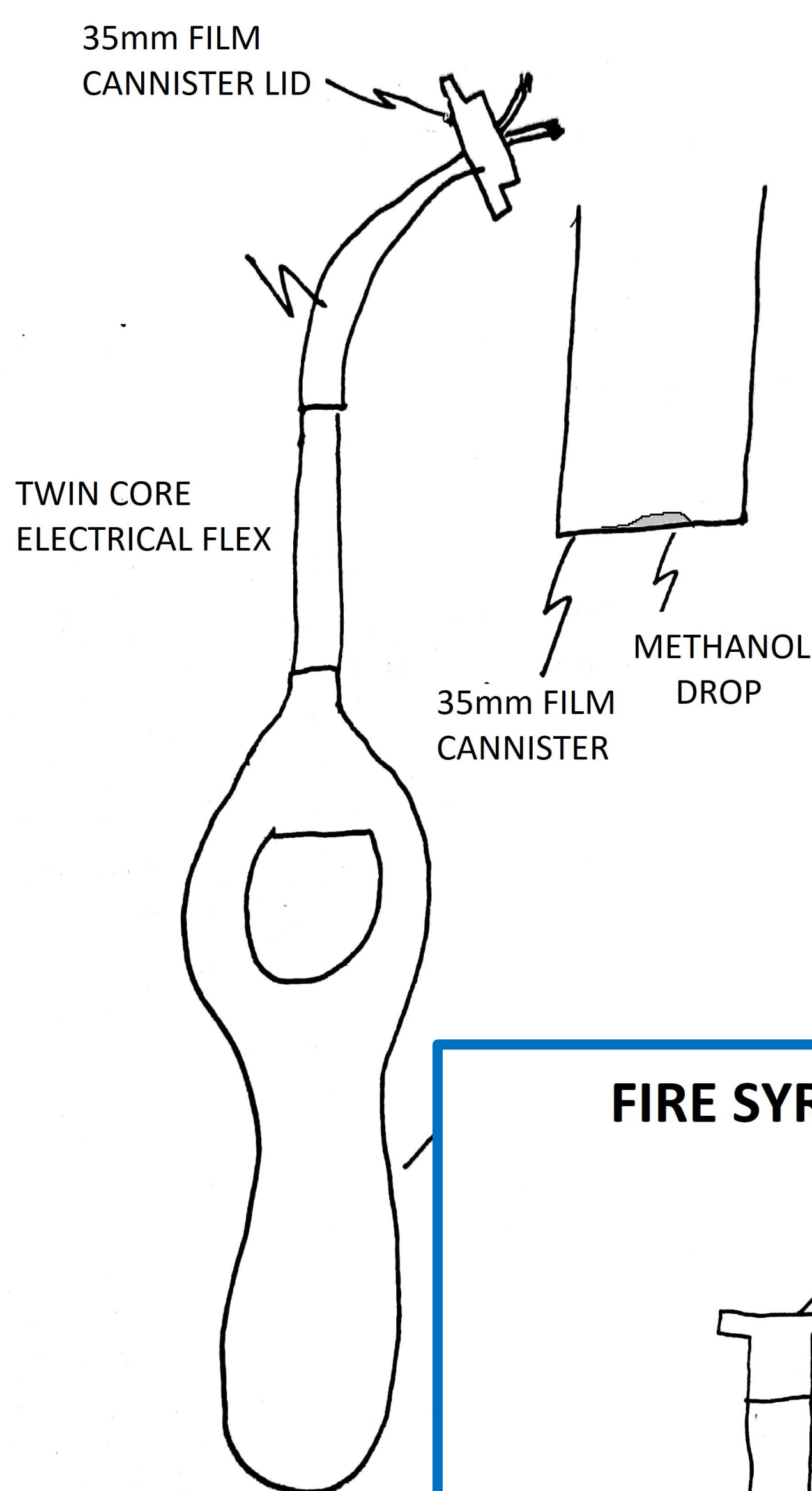
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Modelling density and pressure through particle theory



SCAN ME

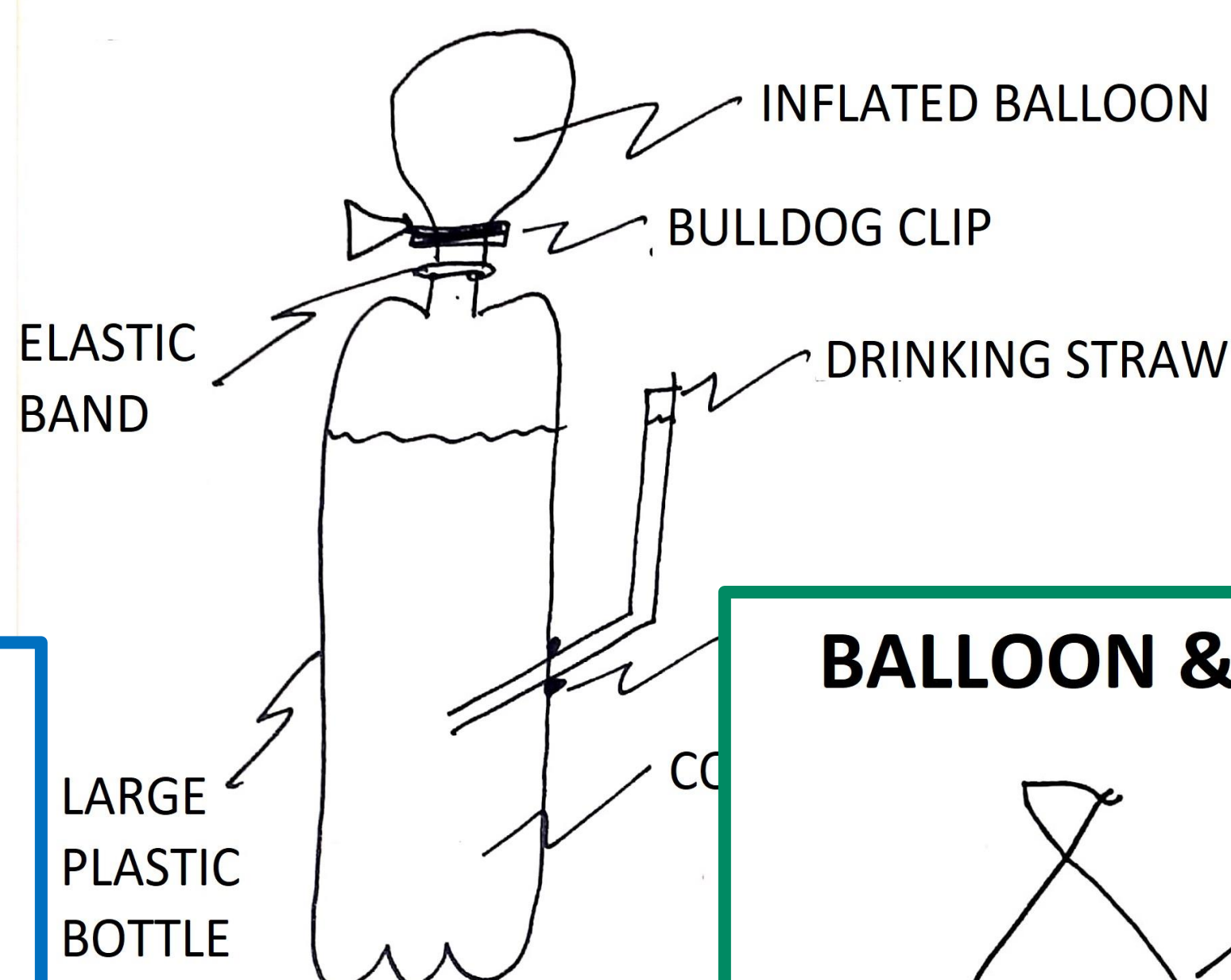
PIEZO ELECTRIC SPARKER



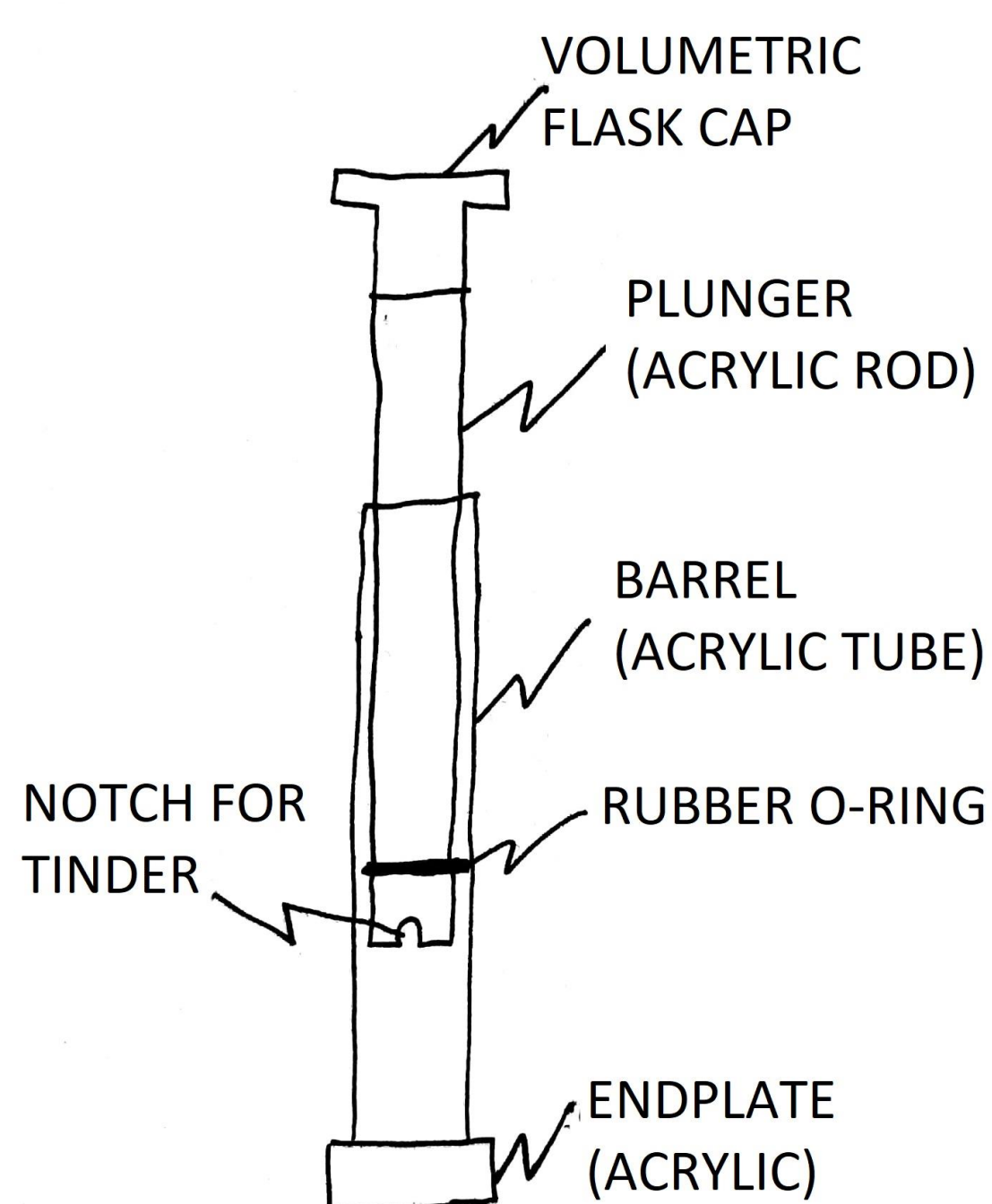
Particle theory is a fundamental theory which is taught to all lower secondary students.

In addition to explaining changes of state, physical and chemical changes, particle theory can be used as the gateway to introducing and integrating density and pressure concepts.

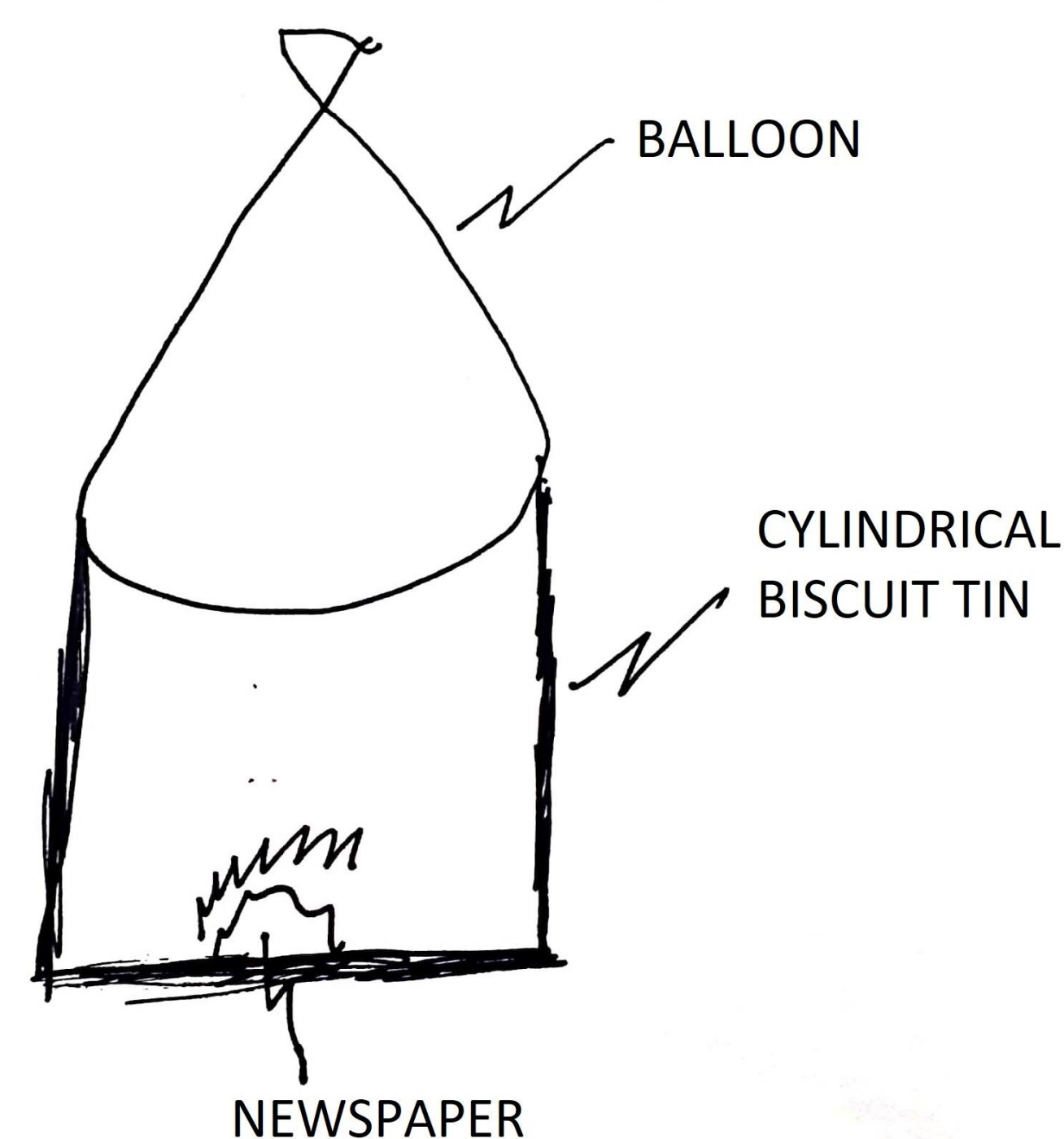
BALLOON BOTTLE FOUNTAIN



FIRE SYRINGE



BALLOON & BISCUIT TIN



This project aims to apply particle theory concepts in explorations of density and pressure concepts using simple models constructed from low-cost/recycled materials. Modelling allows concepts to be explained by example, and consolidated by using novel/alternative methods

Conclusion: Carefully chosen hands-on models can be used in conjunction with particle theory to explain density and pressure concepts, for deeper student understanding.