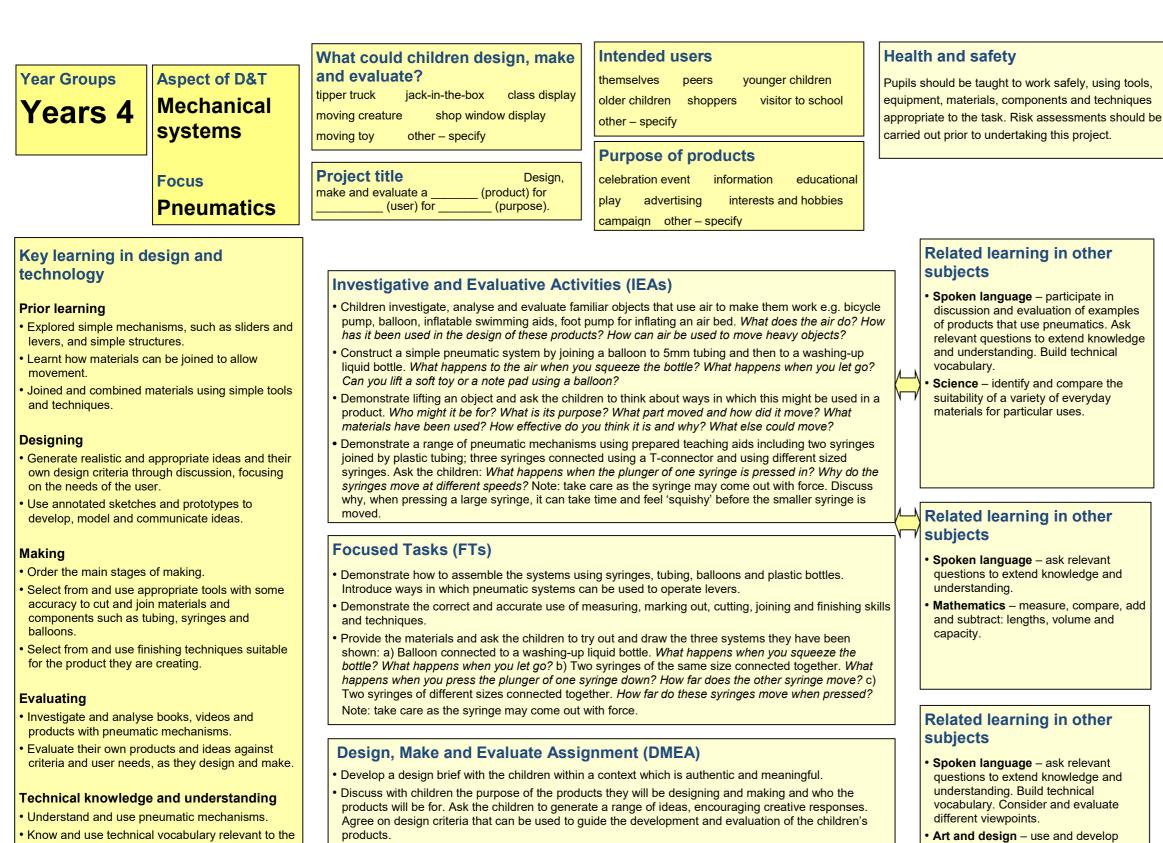
Curriculum map

drawing techniques. Use colour,

Science – when evaluating, make systematic and careful observations

and take accurate measurements.

pattern, line, shape.



Using annotated sketches and prototypes, ask the children to develop, model and communicate their

Evaluate the final products against the intended purpose and with the intended user, where safe and

Ask the children to consider the main stages in making before assembling high quality products,

drawing on the knowledge, understanding and skills learnt through IEAs and FTs.

practical, drawing on the design criteria previously agreed.

Know and use technical vocabulary relevant to the project.

ideas.

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Possible resources

examples of products and books, photos and videos showing pneumatic systems

washing-up liquid bottles, 5mm plastic tubing, sterile syringes, T-connectors, balloons

card, plastic sheet, PVA glue, masking tape, parcel tape, sticky pads, pipe cleaners, elastic bands, syringe clips, left/right handed scissors, snips, card drills, cutting mats, hole punches, finishing media and materials

Key vocabulary

components, fixing, attaching, tubing, syringe, plunger, split pin, paper fastener

pneumatic system, input movement, process, output movement, control, compression, pressure, inflate, deflate, pump, seal, air-tight

linear, rotary, oscillating, reciprocating

user, purpose, function, prototype, design criteria, innovative, appealing, design brief, research, evaluate, ideas, constraints, investigate

Cultural Capital

Visits and visitors We the curious (@Bristol)	Experiences and events. End of project outcomes
Key Texts	Links https://www.data.org.uk/reso urce-shop/primary/7-to-9- years/pneumatic-systems- make-a-mascot/
Community events and links	Global issues
Famous People John Boyd Dunlop Charles Goodyear	Life Skills Making links Problem solving Practical skills

