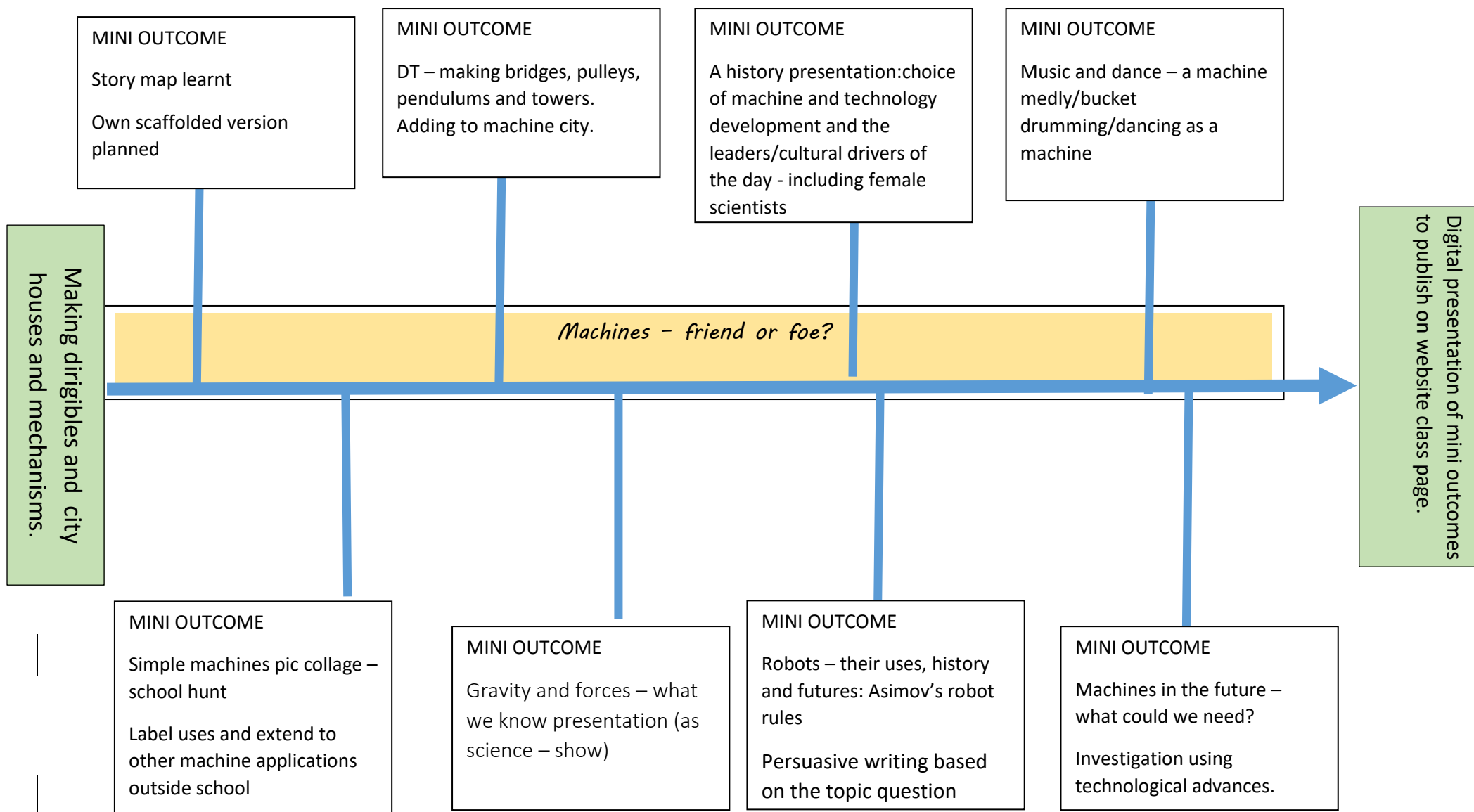




Class 4 Rinsey Autumn 2020 Medium term Plan **Machines, friend or foe?**

Topic	Launch	Class Book	End Authentic Outcome
Essential Question Are machines our friends or foes?	Steampunk airships Story map Ranking machines/technology Simple machine hunt	Before I Met Dudley iRobot Clockwork Cogheart	An on – line celebration of writing, music and performance.
What will the classroom look like? There will be the main question illustrated with examples that the pupils will have ranked between friend and enemy, with reasoning. A start of a city on the back wall to be added to by children – houses, steps and joining bridges, levers and pulleys. Large suspended cogs Steampunk dirigibles DT techniques and model ideas Class fiction and non fiction books within the topic area	Developing the classroom A machine – city where the pupils add to the functions of the city as they discover machines and their uses A corridor timeline of significant machine and technology development Dadwavers and sentence wall Spelling prompts Maths working wall, starting with place value Steampunk dirigibles hanging from the ceiling made as an introduction activity Ranked machines from friendly to not so friendly Reasoning for persuasion of a point of view	Trips/visits to support project Use of outdoor learning spaces – machines drama – based on studies texts, performance poetry, sculpture and dance. The rhythms of machines. If possible, socially distanced visit to machine – rich environment, to be decided within risk assessment guidelines.	Literacy genres Letters Narrative (building suspense, description) Non chronological report Poetry Persuasive
		Use of outdoor class Class reader in story – telling area Drama freeze – frames in amphitheatre Large simple machine exploration i.e. levers – wheelbarrows/porter trolley Catapult courses	Innovative use of ICT Pic collage simple machine hunt Story maker – around chosen theme Function machine calculator Graphic novels



MACHINES – FRIEND OR FOE?

English

Before I Met Dudley – real and imagined mechanics

<https://www.youtube.com/watch?v=Bp4tGTNNi1I> (from 1.06)

iRobot – ‘Robbie’

How Dogs really Work

Clockwork

Sources for writing: Ingenious wood/metal machines

https://www.youtube.com/watch?v=_7rdKaLh2To

Heath Robinson:

<https://www.youtube.com/watch?v=9c8UC2iYAm0>

Using the theme of ‘Machines, friend or foe?’, we will be discovering why we need machines, how they have changed our world and understanding, who has developed them and why and what machines in the future could bring.

Science

- Linked to DT
- Simple machines
- Forces
- Scientific process

Application of science in the real world

Timeline of scientific discoveries linked to technology

Discovery of female scientists

History:

Inventions and what seemed important by the period of the era (ie wars, needs)

Female inventors, scientists and inventors

The impact of discoveries and advances-

Weapons and machinery

Industrial revolution

Technology and space

Design technology- ‘tinkering’

<https://www.youtube.com/watch?v=KKBHM2ZCcVo>

Heath Robinson designs and ideas, Wallace and Grommit Rob Higgs <https://www.youtube.com/watch?v=wSuH9u0kvhU>

Catapults, balloon cars, paddle boats, cams, lever mechanism https://www.youtube.com/watch?v=xh1jTtAxs_Q

Cutting and Joining techniques

Music/dance

<https://www.extremetech.com/extreme/278999-boston-dynamics-spotmini-robot-can-bust-a-move>

Bucket – drumming

Listening activities from machine sources

Dancing using machine – like moves, to build to one large machine as distancing allows

DT/Art Bridget Riley, Heath Robinson

Machine – inspired cut outs/Patrick Caulder moblies

Collage/ colour collage

Printing/ kinesthstic art

Still life of machines

Designing and notemaking

Cutting/finishing techniques

Joining techniques for 3D models

