



Year group: Year Six

Term: Spring 2

Project title: Can we break the land speed record? Project and Exhibition: Rocket Car building and Race Day with other year group audience

Project synopsis:

Inspired by Bloodhound SSC, children will design, build, decorate, race and analyse the results of rocket cars.

Communicating learning:

Race day shared with children from other year groups.

Group video projects to be produced and shown.

Project outcomes:

Final rocket cars to be displayed in school.

Curriculum opportunities:

English: Instructions explain how we have went about making our rocket cars.

Report on the Bloodhound SSC, its origin and where it is now.

Maths: Measures, time, calculating the mean, adding decimal numbers, ratio (scale speed).

Science: Friction, thrust, air resistance, aerodynamics.

Humanities: The history of land speed records, the history of Bloodhound SSC, racing cars.

Creative arts: Designing and decorating the rocket cars (Hyde Community College's DT teacher

votes for the best design and most creative car).

STEM: Design, build and race our rocket cars – timing them to see which is the quickest.

Outdoor Learning: Air resistance, cars are to be raced outside. Some experiments to be conducted outside.

Engagement Activity:

Videos of Bloodhound.

Looking at rocket cars from the previous year (quickest and best design).

Use of Hyde Community College's facilities.

Key Vocab:

Gravity, mass, friction, engineer, thrust, weight, air / water resistance, aerodynamic, plan / side view, prototype, scale, design

How you can help: