



Est. 1954

תלמוד תורה פרדס

Pardes House Primary School

Moshe Bude House, Hendon Lane, London, N3 1SA, Tel: 020-8343-3568, E-mail: office@pardeshouse.com

בס"ד

Founding Principal:
Rabbi E Halpern זצ"ל

Menahel:
Rebbe S Roitenberg שליט"א

Headteacher:
Mr J Sager MA B.Ed NPQH FCCT

Topic Medium-Term Planning Document

Topic: Mechanics, how things work	Year group: 1	Term: Spring 2
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Key aims of topic	Curiosity being stimulated	Big thinking question	Other key questions being investigated
To understand how wheels and axles work. To design their ultimate bike. To understand how transport has and will change over time.	Wheels in everyday life Wheels in toys Changes in wheels, bikes and toys over time	How have wheels helped us develop into the society we are today?	How do wheels work? What are the benefits of wheels? How have wheels changed over time?
Key words defined/investigated	Texts, Books and Stories	Topic-rich vocabulary	Writing skills and opportunities
Wheel Axle Adapt Rotate Turn Move Mechanics	Mrs Armitage on Wheels by Quentin Blake <u>Read it and reap</u> : The Twits by Roald Dahl	Wheel Axle Adapt Rotate Turn Move Mechanics	Descriptive writing – describe bike they're designing Instruction writing – instruct others on how to make their own bikes Recount and sequence story Poetry week!
Maths skills	Skills linked to Foundation subjects	Emotional Literacy, PSHE	Art and DT skills
Measurement, link to D&T and designing own vehicles. Look at measuring size of vehicle and distance travelled. Multiplication – skip counting in 2s using wheels of bike / lego pieces	Humanities: Look at invention of wheel and bike. Look at how/why wheels were invented and how they and bikes have changed over time. Compare and contrast wheels from different eras. Look at and design futuristic vehicles.	Road Safety Helping oneself	Design a bike! Inspiration from Mrs Armitage and her adapted bike. Use wheels and axles to make it work.



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	Science: look at materials used to make bikes. Link to D&T.		
Visitor and trip opportunities	Active Learning opportunities	British Values link	Social responsibility
London Transport Museum Bikeability course in school?	Balance Bikes Design own bikes Role play alternative ending to the story	James Starley, inventor of penny farthing British poets and authors London Transport Museum	Road safety, signalling when on bikes Importance of green vehicles to the future
National / International events links	Other (including any other skills being developed that can impact pupils in the short term and for their long-term future)		What do the boys already know?
June 3rd – International Bike Day Practise riding on school's balance bikes	Balance bikes Road Safety		Previous experience of transport, outside play using toys with wheels e.g. scooters, bikes, rollerskates/blades

The Quality of Education

When we are considering our planning for the specific topic and indeed other areas of the curriculum, it is important to bear in mind that if we want the children to have long-term retention of learning, this will be impacted by:

- Clarity of intent
- Precise end points
- Rationale of what is being planned



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- Knowledge, understanding and skills gained