



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 | Year group: 4 | Term: Spring 2 |
|-------------------------|----------------------|-----------------------|

| Key aims of topic | Curiosity being stimulated | Big thinking question | Other key questions being investigated |
|---|---|---|---|
| Explanation text Letter writing Instructional work Flowcharts Understanding Comprehending ideas and informing. | How things work and why How exactly things are made. What is function of certain materials within creating an object. Looking at everyday objects and creating our own inventions. | Explain why it is important for us to understand how mechanics works and how it is linked to our everyday life. | Why do we need.....? What is the purpose of understanding how things work? If we were to change how something works (name diff objects), how would you change it and why? |
| Key words defined/investigated | Texts, Books and Stories | Topic-rich vocabulary | Writing skills and opportunities |
| Mechanics Development Creations Explanation Investigation Instructional Comprehend Informing | Until I met Dudley, by Roger McGough <u>Read it and reap:</u> Operation Gadgetman, Malorie Blackman | Mechanics Development Creations Explanation Investigation Instructional Comprehend Informing technology | Explanation text Letter writing Instructional writing Flow charts |



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| Maths skills | Skills linked to Foundation subjects | Emotional Literacy, PSHE | Art and DT skills |
|---|--|--|---|
| Place value – negative numbers, roman numerals. Solve word problems based around mechanics. Multiplication and division – formal method Addition and subtraction – formal method Fractions - work out fraction of amount. Decimal work – rounding, comparing | Humanities – learning about other cultures and comparing them over time. Learn about their alphabet, numbers and symbols, foods and comparing these ancient times to modern times. Science – sound and mechanical ways of how sound works. Relating these to other mechanics and everyday objects. | Heads up How people need to work at a team to function well when building mechanics | Plan, design and create their own parachute. Designing our invention. Science link to gravity. Maths link to area of parachute size. |
| Visitor and trip opportunities | Active Learning opportunities | British Values link | Social responsibility |
| Outing to the transport museum. Going to try organise a speaker on how trains work. | Get mechanical items to take apart and see the inside of it and how pieces are put together. Fly the parachute to see which one works best and compare to other groups. | Taking turns Sharing Following rules Respect other cultures Positive actions can influence decision making | Being careful working with mechanics Making sure people are safe around you when working with mechanics. |
| 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? |
| | | | Electricity Respectful Know how to follow rules and instructions. Health and safety |



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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
- Knowledge, understanding and skills gained