

Paper Helicopters

Materials

Paper Helicopter Templates (large and small – printed on regular paper)
Paper clips
Clothespins (plastic or wood)
Scissors

Key Question

What affects how long paper helicopters stay in the air?

Learning Objectives

Children will...

- make paper helicopters and play with them.
- explore how changing the paper helicopters impacts how long they stay in the air.
- compare different paper helicopter designs by letting them race down from an elevated location like the top of stairs, a balcony, or on top of playground equipment (if available).

Vocabulary (See **What the heck? Explanation of Science** at the end for definitions.)

Helicopter

Blades

SAFETY CONCERNS

- Throwing the paper helicopters and collecting them can be a bit chaotic. Make sure there is plenty of room and perhaps make a rule that the young aerospace engineers need to walk to collect their helicopters after they land.

STEMAZing Teaching Philosophy

Children should always be given ample time to experiment, notice, and wonder before they are provided an explanation.

Always engage children with our two favorite questions:

What do you notice?

What do you wonder?

Resist the urge to answer any questions children have while exploring. Instead, respond back with questions to children and let them make sense of the world. Sample questions you might use: What do you think? Do you notice any patterns? What could we change? Can we test something else? What can we try next? If children ask a testable question, which they could answer by doing an experiment, talk through with them how they might design a test to help answer their question. As much as possible and within reason, let them actually test their questions by trying the experiments they propose.

Physics Paper Helicopter Secondary Data

**Gloria Ann Stillman, Werner
Blum, Gabriele Kaiser**



Physics Paper Helicopter Secondary Data:

Physics Education Hans Ernst Fischer, Raimund Girwidz, 2022-01-12 This book offers a comprehensive overview of the theoretical background and practice of physics teaching and learning and assists in the integration of highly interesting topics into physics lessons Researchers in the field including experienced educators discuss basic theories the methods and some contents of physics teaching and learning highlighting new and traditional perspectives on physics instruction A major aim is to explain how physics can be taught and learned effectively and in a manner enjoyable for both the teacher and the student Close attention is paid to aspects such as teacher competences and requirements lesson structure and the use of experiments in physics lessons The roles of mathematical and physical modeling multiple representations instructional explanations and digital media in physics teaching are all examined Quantitative and qualitative research on science education in schools is discussed as quality assessment of physics instruction The book is of great value to researchers involved in the teaching and learning of physics to those training physics teachers and to pre service and practising physics teachers

Teaching STEM in the Secondary School Frank Banks, David Barlex, 2014-07-17 The skills knowledge and understanding of the subjects involved in STEM Science Technology Engineering and Mathematics are vital for all young people in an increasingly science and technology driven society This book looks at the purpose and pedagogy of STEM teaching and explores the ways in which STEM subjects can interact in the curriculum to enhance student understanding achievement and motivation By reaching outside their own classroom teachers can collaborate across subjects to enrich learning and help students relate school science technology and maths to the wider world Packed with ideas and practical details for teachers of STEM subjects this book considers what the STEM subjects contribute separately to the curriculum and how they relate to each other in the wider education of secondary school students describes and evaluates different curriculum models for STEM suggests ways in which a critical approach to the pedagogy of the classroom laboratory and workshop can support STEM for all students addresses the practicalities of introducing organising and sustaining STEM related activities in the secondary school looks to ways schools can manage and sustain STEM approaches in the long term This timely new text is essential reading for trainee and practising teachers who wish to make the learning of Science Technology Engineering and Mathematics an interesting motivating and exciting experience for their students

Preprints of Papers Presented at the Second National Conference on Weather Modification of the American Meteorological Society, April 6-9, 1970, Santa Barbara, California ,1970

Testing in American Schools United States. Congress. Office of Technology Assessment, 1992 And policy options Testing in transition Educational testing policy The changing federal role Lessons from the past A history of educational testing in the United States How other countries test Standardized tests in schools A primer Performance assessment Methods and characteristics Information technologies and testing Past present future List of acronyms Contractor reports

Reliability and Robust Design in Automotive Engineering

,2004 *Technical Data Digest* ,1947 *NASA Scientific and Technical Reports* United States. National Aeronautics and Space Administration Scientific and Technical Information Division,1970 Scientific and Technical Aerospace Reports ,1995 *Applied Mechanics Reviews* ,1974 *Aeronautical Engineering* ,1991 *Army Research and Development* ,1968 *Army RD & A.* ,1968 Second National Conference on Weather Modification of the American Meteorological Society ,1970 **Management, a Bibliography for NASA Managers** ,1987-04 **Technical Abstract Bulletin** ,1978 **Management** ,1975 **Journal of the American Helicopter Society** American Helicopter Society,2000 **The Guidance and Control of Helicopters and V/STOL Aircraft at Night and in Poor Visibility** North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development,North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development. Guidance and Control Panel,1979 International Aerospace Abstracts ,1998

Mathematical Modelling and Applications Gloria Ann Stillman,Werner Blum,Gabriele Kaiser,2017-11-05 This volume documents on going research and theorising in the sub field of mathematics education devoted to the teaching and learning of mathematical modelling and applications Mathematical modelling provides a way of conceiving and resolving problems in the life world of people whether these range from the everyday individual numeracy level to sophisticated new problems for society at large Mathematical modelling and real world applications are considered as having potential for multi disciplinary work that involves knowledge from a variety of communities of practice such as those in different workplaces e g those of educators designers construction engineers museum curators and in different fields of academic endeavour e g history archaeology mathematics economics From an educational perspective researching the development of competency in real world modelling involves research situated in crossing the boundaries between being a student engaged in modelling or mathematical application to real word tasks in the classroom being a teacher of mathematical modelling in or outside the classroom or bridging both and being a modeller of the world outside the classroom This is the focus of many of the authors of the chapters in this book All authors of this volume are members of the International Community of Teachers of Mathematical Modelling ICTMA the peak research body into researching the teaching and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace

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