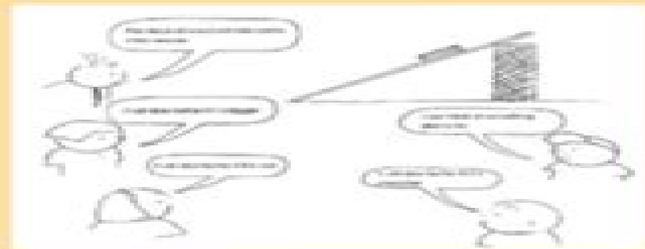




# INVESTIGATING SLOPES

|                                |   |
|--------------------------------|---|
| <b>Equipment:</b>              | Lots of books or blocks (of equal height if possible), empty kitchen rolls, marbles or toy cars, measuring tape, small piece of plasticine or blu-tack, different materials (e.g. carpet, wood, etc.), scissors.  |
| <b>Suggested Class Level:</b>  | All Senior and Junior   |
| <b>Preparation:</b>            | Cut kitchen roll tubes in half lengthways.<br>A discussion, and better still an activity, on 'Friction' (see DPS activity <i>FRICION – SLIP OR STICK?</i> ) would be good preparation for this activity.  |
| <b>Background information:</b> | When a marble or toy car is let go at the top of a slope it is pulled down the slope by the force called gravity. Different weights are pulled down at the same speed (remember Galileo's famous experiment from the top of the Leaning Tower of Pisa).<br>But the distance they travel when they reach a flat surface at the bottom depends on the angle of the slope, the surface of the slope, and the type of surface onto which they run. If the angle of the slope gets too steep, the car or marble may fall off, i.e. take a nose-dive.   |
| <b>Trigger questions:</b>      | <p>"What is a slope?" (Children may talk about something being steep, at an angle...)</p> <p>What do you notice when you walk/cycle up a slope/ down a slope? Do you go faster/slower? A good introduction could be a discussion on the following concept cartoon</p> <p>(Brenda Krogh and Stuart Naylor, "Starting Points for Science", Millgate House, UK, 1972, p 54):</p> <p>Now place a marble at the top of a ramp (a kitchen roll cut in half lengthways, and one end propped up on a book, will do), and ask:</p> <p>What will happen when you let the marble go?<br/>         What will happen when you make the ramp higher, i.e. when we add more books?<br/>         What will happen when you make the ramp really really high?<br/>         How would reduce the distance the marble runs on the floor?<br/>         Can you think of anywhere slopes are useful? (Ramps – e.g. for trolleys in supermarkets, wheelchairs; 'hairpin' bends on roads make it easier to go up or down very steep slopes.)</p> |



# Investigating Slopes Key

**TD Snyder**



## Investigating Slopes Key:

**Investigation of a Vibrating Slope Method for Measuring Concrete Workability** K. L. Saucier, 1966

**Laboratory Investigation of the Vertical Rise of Solitary Waves on Impermeable Slopes** United States. Beach Erosion Board, 1953

*Multidisciplinary Loess Geohazard Investigations* Fanyu Zhang, Gonghui Wang, Mark Allen, Yueren Xu, 2022-08-11

**Landslides and Engineered Slopes. From the Past to the Future, Two Volumes + CD-ROM** Zuyu Chen, Jian-Min Zhang, Ken Ho, Fa-Quan Wu, Zhong-Kui Li, 2008-06-11 270 Expert contributions on aspects of landslide hazards encompassing geological modeling and soil and rock mechanics landslide processes causes and effects and damage avoidance and limitation strategies Reference source for academics and professionals in geo mechanical and geo technical engineering and others involved with research des

*Western Slope Fruit Investigation, 1906* Edmund R. Bennett, Estes Park Taylor, Orville Blaine Whipple, Philo Kneeland Blinn, Wendell Paddock, William Parker Headden, Colorado Agricultural Experiment Station, 1907

Investigation of Vertical Members to Resist Surficial Slope Instabilities Hani Hasan Titi, Sam Helwany, 2007 This report summarizes the state of the art of using reinforcing structural members to stabilize surficial slope failures The research team identified the following three innovative methods of surficial slope stability installing small size structural members by conventional methods installing launched soil nails and installing earth anchors This report includes detailed information regarding the design and analysis methodology for structural members the material properties of structural members used construction methods cost effectiveness and case histories

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**Methods and Techniques of Ground-water Investigation and Development** ,1966

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**Final Report of the Drought Investigation Commission** South Africa. Drought Investigation Commission, 1923

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*Melanesia: an Account of Investigations in Samoa, Tonga, the Ellice Group, and the New Hebrides, in 1924, 1925* Patrick Alfred Buxton, 1927

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