

**SUBJECT: BASIC SCIENCE**

**TERM: THIRD**

**CLASS: JSS1**

## **FRICTION**

Friction is a force that oppose motion when two surface are in contact with each other. That is, it resist or prevent movement when surface are in contact.

### **Examples of friction**

1. Light produced by hitting two hard objects e.g stone and iron together
2. Heat produced by rubbing two surface together, wearing of heels and tyres of a motor car
3. The heat produced by moving parts of machines.

### **Types of friction**

There are two types of friction: They are

1. Static friction
2. Dynamic (Kinetic or sliding) friction

**Static friction:** This is type of friction that occurs when a body moves against another but in a fixed position.

**Dynamic (Kinetic or sliding friction):** This is the type of friction that occurs when a body moves constantly over another body.

### **Characteristic of friction**

1. Friction opposed motion
2. The frictional through weight
3. The ratio of the frictional force and the normal reaction is constant i.e,

$$\frac{F}{R} = \mu \quad \text{Where: } R = \text{the reaction}$$

$F$  = force

$\mu$  = Coefficient of friction

4. Static frictional force is independent of the surface area in contact

### **Uses and advantages of friction**

1. Friction makes movement possible
2. It helps vehicles to move

# All About Basic Science Jss1 Jss3

**Guofang Wan**



## **All About Basic Science Jss1 Jss3:**

**Some Developments in Research in Science and Mathematics in Sub-Saharan Africa** Lorna Holtman, 2008 Much attention in late developing countries is given to providing access to studies which allow school leavers to enter science and technology related careers These programmes are driven by the belief that graduates will then substantially contribute to the developmental needs of their countries But is providing access to institutions enough Students in developing countries often come from school environments lacking in resources human physical and financial This book in a number of chapters reviews research related to the crucial dimension of epistemological access to the disciplines of import which students need as much as institutional access in order to improve their chances of success A significant feature of this collection s research studies is that their empirical bases are highly localised covering areas such as research methods access curriculum instruction and assessment and the relevance of science and mathematics education in Zimbabwe Uganda Swaziland South Africa Namibia Malawi Ghana and Lesotho This volume provides invaluable insights and will be of relevance to researchers policy makers and lecturers interested in these research outcomes in Sub Saharan Africa It is the outcome of a doctoral research capacity development project the Graduate Studies in Science Mathematics and Technology Education GRASSMATE The Mirror Margaret Safo (Mrs.), 2006-09-23 African Journal of Education Studies ,2005 *Education and Training in Geo-Engineering Sciences* Iacint Manoliu, Nicoleta Radulescu, 2008-05-20 Covering a broad range of topics curricular matters in geo engineering education teaching learning and assessment in geo engineering education challenges in geotechnical engineering education issues in education and training in Engineering Geology the link university professional world in geo engineering this book will be invaluable to university teachers academics and professionals involved in education and training in geo engineering sciences **Research Review** ,2009 **Research Review** University of Ghana. Institute of African Studies, 2009 *Daily Graphic* Elvis D. Aryeh, 1997-01-15 **Gender & Behaviour** ,2007 **Osiele Journal of Arts and Social Sciences** ,2005 **Research in Education** ,1995 *Education in Sierra Leone* ,2007 After a decade long civil war Sierra Leone witnessed an unprecedented surge in school enrollments at the primary and then the secondary levels Committed to the Education for All objectives the government further encouraged greater access to school The country must now negotiate the transition from postwar recovery to regular delivery of education services The main tasks ahead include reaching the remaining out of school children and improving the quality of the learning environment and ultimately of learning outcomes Success will depend on the unrelenting strong commitment of the government the capacity of providers to effectively deliver education services and a sustainable financial framework **The Scottish Educational Journal** ,1949

**The Reconstruction of American Liberalism, 1865-1914** Nancy Cohen, 2002 Cohen argues that the values and programs characteristic of modern American liberalism were invented not during the Progressive Era as is generally assumed but in the conflict ridden years after the Civil War **The Exodus** Eric Beauchemin, 1999 **WISDOM** Ruphina

Folayemi Ojo Adesan,2018-05-21 WISDOM eBook produced by Wisdom Consultancy Ltd is full of wisdom to be gleaned for a victorious living It has interesting and informative human angle and general interests stories personality interviews historical articles and Bible led faith stories of personal encounters This edition features a superlative celebration of over 80 years of a unique leader Otunba Michael Adepetun Adeyemi and inspiring articles on wisdom nuggets for successful living and an exclusive expose of the Nigerian Yoruba culture     Children's Agency and Development in African Societies Ofosu-Kus, Yaw,2017-07-19 This book focuses on African childhood and youth within the context of development and socialization where children are expected to be moulded in the image of adults In many African societies children are generally held as passive bearers of the demands of adults regardless of the fact that they are often exposed to a multitude of challenges that originate from the capriciousness of those adults However buoyed by international conventions and national legislations that offer them greater protection and the ubiquitous internet that exposes them to childhood and youth experiences elsewhere many of them are increasingly becoming assertive in homes schools and communities as well as re invigorating their survival and self preservation instincts It is in this regard that this book through the various chapters engages with their competencies skills and creativity to respond to experiential challenges as independent migrants or ones under coercion working in city streets and markets or cocoa farms or juggling work and schooling in pursuit of some education Confronted with their parents and siblings health predicaments and the inadequacies of state and familial care or urgent negotiation of their sexualities they demonstrate incredible resilience Similarly their perceptiveness is demonstrated in a unique appreciation of politics and its actors and a capacity to assume responsibilities beyond their chronological age Thus while highlighting some of the challenges confronting African children the book provides gripping evidence of how they resiliently negotiate those challenges     *NASHERJ.* ,2003-12     *Republic of Sierra Leone* ,2006 Contains summaries from eleven reports analyzing data from the 2004 population and housing census     *Flamingo Social Studies for Junior Secondary Schools* Ahmed Ibrahim,2005\*     Directory of statisticians in Japan Tōkei Sūri Kenkyūjo (Japan),1957

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