THE SCIENCE OF LIGHTNING



We have all seen those ominous dark clouds that suddenly flash a bright bolt of lightning through the sky, with a loud clap of thunder trailing close by. Thunderstorms are a common occurrence on our planet, thousands happening any given minute, but much information is yet to be discovered about this mysterious light show. Scientists continue to have unanswered questions about lightning because the process is so complex. It involves an in depth knowledge of both physics and chemistry. (1)

Lightning is an electric current that originates inside of a cloud, caused by rapidly rising and falling air currents. Ice and water droplets move around inside the cloud, forming collisions and friction that cause the cloud to fill with both positive and negative charges, each at opposite ends of the cloud. To generate a bolt of lightning, the negative charges must gain enough power and pull towards the positive charges on the ground. The negative charge from the cloud will send out a feeler, best known as a stepped

leader, which is a series of negative charges. As the stepped leader approaches the ground, a positive streamer will extend up for it creating a channel and then a flash of light is created from the return stroke running from the ground to the clouds. (2)

Bolts of lightning do not always flash vertically. Most of the electrical energy created from a thunderstorm is dissipated within the clouds. Lightning may flash horizontally towards the positive particles of another nearby cloud, hopping back and forth between the positive and negative charges. (3)

As the air surrounding the lightning bolt is heated, it causes the air to expand faster than the speed of sound, squeezing the air and forming a shock wave that we know as thunder. Since lightning bolts can create many short bursts, multiple shock waves at various altitudes are made, which reach your ears at different times, making a rumbling sound. (4)

Light travels at 186,291 miles per second, which is much faster than sound at 1,088 feet per second. This explains why we always see a bolt of lightning before we hear a rumble of thunder. If you want an estimate as to how many miles away the lightning struck, simply count the seconds between the flash of light and the rumble of thunder and divide by 5. (5)

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volume bringing together a number of experts in their respective fields represents an important contribution to the topic of science and mathematics education The contributions deal with various aspects of education including epistemology theoretical modelling environmental sensitivity probability distribution technological pedagogical content knowledge model eliciting activity and reasoning skills As such the book provides the reader with insights into science and mathematics education from various perspectives

General Science Quarterly, 1928

School Science and Mathematics, 1922

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents Popular Science News ,1902 Chemical News and Journal of Industrial Science ,1905

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