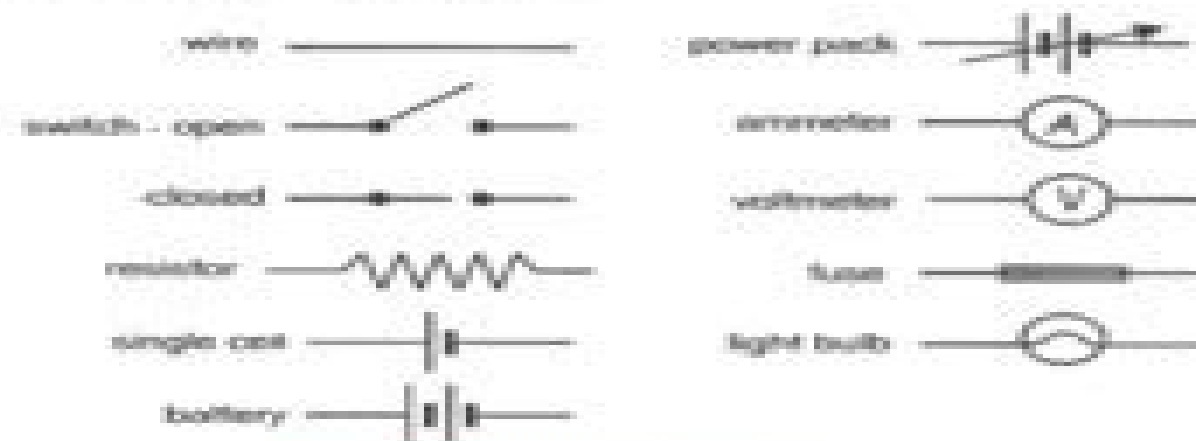
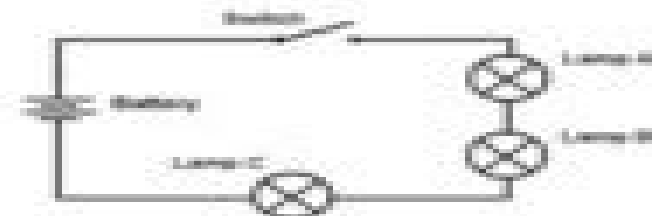


CIRCUITS and CIRCUIT DIAGRAMS

A circuit is a continuous loop consisting of an energy source, conducting wires, one or more loads, and a switch.

A **circuit diagram** is a standard way of drawing an electrical circuit. It is also called a **schematic diagram**.

In a circuit diagram, symbols are used to represent the different types of components that are linked together in a circuit. Here are some common symbols:



Notice above that a **battery is more than one cell**. The longer line represents the positive electrode, and the smaller line is the negative side of the cell.



This picture shows one cell hooked up to a light bulb. Notice the straight lines in the circuit diagram represent wires. The cell is one long line and a shorter one (this is not a **battery**, but we still call it one!)

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Xiang Xie



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Resources in Education, 2000-10 *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 **Course of Study in Physical Science for the Junior High School, Grades 7, 8, and 9** New Jersey. Department of Public Instruction, 1927 Creating Stellar Lessons with Digital Tools Kenneth J. Luterbach, 2022-05-13 Creating Stellar Lessons with Digital Tools prepares teachers in training and in service teachers to use technologies for design and development activities with middle and high school students While software open resources handheld devices and other tools hold great potential to enhance learning

experiences teachers themselves must model technology use in ways that inspire students to become producers and leaders rather than consumers and followers Featuring concrete applications in social studies English mathematics and science scenarios this book provides pre service teachers with seven paths to creatively integrate and innovate with computational thinking datasets maker spaces visual design media editing and other approaches **The School Science Review** ,2005

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