

SCHOOL STUDY SPORTS

THE JUNIOR BRITISH WHIG BIGGEST LITTLE PAPER IN THE WORLD

HUMOR PLAY WORK

STORIES ABOUT DOGS YOU KNOW

THE SHORT STORY, JR.

"THE LITTLE TOY DOG"

The tiniest members of dogdom are known as toy dogs. Many people raise them just for dog shows, but they are nice to have as pets, though harder to take care of than the big fellows who can almost shift for themselves.



That these toy dogs appreciate good treatment is shown by the story of the Prince of Orange and his dog. Of course you've read about him in history, but perhaps you didn't know that he had a tiny pug dog of which he was very fond. One time there was a big battle on. The Prince was at the front. As he was lying on a stretcher in his tent, two men from the

The pug is a very sweet-tempered and gentle dog and nice to have around the house. His great fault is that he is greedy and likely to get fat and fat.

Other Toy Dogs A very pretty toy dog is the fluffy little Pomeranian. He is a faithful animal and has a lot of intelligence for his size, though he is inclined to be fussy.

A conceited fellow is the handsome black Schipperke. He is really very impudent, and it is a wonder the big dogs don't beat him up. But for all his conceit he is a good-tempered dog.

Toy Terriers The black-and-tan toy terrier is a fine looking little fellow. He should be well built, with the head long and neat. His skin is glossy and smooth. The funny little Yorkshire terrier is one of the liveliest of the toy dogs. He is very hardy, too, and has a lot of pep for his size. The true Yorkshire terrier has a long blue and tan coat. It is this coat that makes many people dislike to raise him, because it requires much care. It should be carefully brushed out each day.

Care of the Dogs Toy dogs can't be brought up in a rough and tumble fashion. They must be well looked after. For one thing, they should be fed regularly. Their meals must be small—breakfast for breakfast, out up roast meat or rice and rice for lunch and some stale cake, perhaps, in the evening. Never feed them big, sloppy meals, and avoid anything containing oatmeal or cornmeal.

The Pup in History This pup appeared in history. The Prince was so grateful, that he always kept in his home a dog of that kind, and they became quite popular about court. They became a fad in England, too, and were at first called "Dutch pugs."

The Glen Park Spirit The boys and girls of Glen Park were proud of their spirit. The fact that part of them came from the houses of the well-to-do on the east side of the park and the rest came from the factory district on the west side had nothing to do with their playing together. Most of this was due to Mr. Tompkins, who directed the playground.

Whenever one of the more fortunate boys became snobbish, he was sent home, and whenever one of the poorer boys got rough with "the swells," the same thing happened. And there was always peace in the park.

One of the things that held them together was their teams. They had worked up a champion swimming team, a clever tennis team, and a baseball team that hadn't yet been defeated.

One of the stars on the baseball team was Dick. His chum and "cut-up" was Randy. The two boys hung around together most of the time on the playground. Dick was delivering groceries for a neighborhood store, but he always got through in time to come over for a little practice in the afternoon.

There was great excitement one afternoon when an important game was to be played at the park and Dick didn't start when he finally appeared, breathless and worried. "I got some extra delivering to do," he explained. "I'm not through yet. You'll have to get some one else to play."

"I'll tell you," said Mr. Tompkins, "maybe some one will do the delivering for you. How about it?" Randy was the first one to offer to do the job, though it meant missing the game. So off he went.

The game was over, and Glen Park had won, when he returned. "All right," he said. "Got along all right, only dropped a sack of eggs and smashed them all to pieces on an old lady's back porch."

"Won't that get Dick into trouble?" said Mr. Tompkins, and Dick looked worried.

"Worry," said Randy, "it'll be all right. Dad owns that chain of stores."

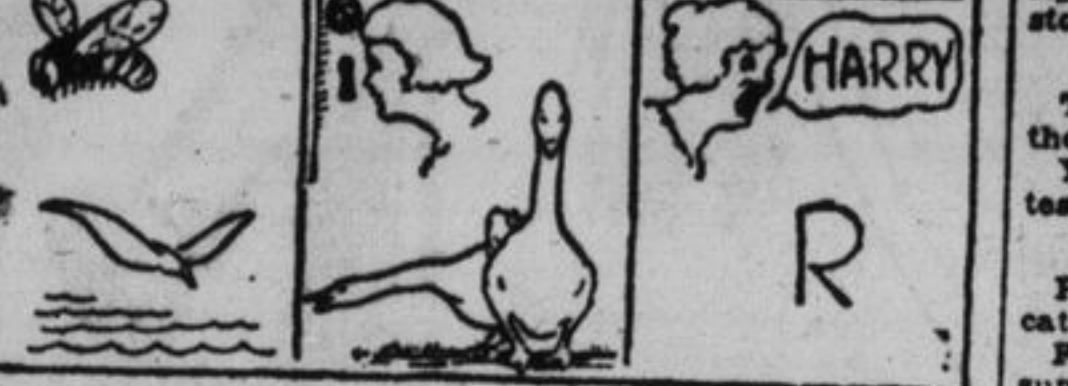
Teacher: "Give me a sentence with the words defeat and deduce in it." Young Hopewell: "I fumbled in defeat, and my father gave me deduce."

Poor: "What's worse than raining cats and dogs?" Fish: "Why, hailing street cars, I suppose."

Daily Picture Puzzle

ANSWER TO YESTERDAY'S PUZZLE IS: BENIGN ATTEND RELATE MORNINGS REFORM STEW FATA FORTITUDE

What three Dogs are these?



A BISHOP'S APPEAL TO ATTEND CHURCH

Means Cutting Out Motor Trips and Golf During Hours of Service.

An appeal to churchmen to regularly attend divine service on Sunday, even if it does entail abandonment of motor trips or golf games, is made by the Bishop of Montreal in his monthly message, which appears in the July issue of The Montreal Churchman, though Bishop Farthing abstains from any condemnation of such indulgences as such on the Sabbath, apart from interference with religious duties.

In part the message is as follows: "We want you to join with us in getting every available member to worship God on the Lord's Day. The Church will never be strong in her work until her members are regular and devout in their worship together. It means self-denial; but are we not all called to self-denial? It means 'cutting out' the motor trip; it means 'knocking off' golf and tennis during the hours of service on Sunday.

"I am not pleading for a Puritan Sabbath. I am not asking that we should be the slaves of every unreasonable crank, so that we must not do anything to which any one objects. I am asking that each one should put the worship of God first and that we should each do those

things which will strengthen our influence for Christ. I do not say that any of these things I have named are wrong on Sunday; that must be left with the conscience of each one to judge for himself. I do say that when our pleasures, however innocent they may be in themselves, come between us and our worship of God, then they become to us hindrances and not helps. Surely we can so arrange our motor trips, our walks and other pleasures, so that we can find time for the worship of God, who enables us to enjoy those pleasures.

Untold harm is done to the Church and the work of Christ by those members who, in the summer especially, at home and at summer resorts, seek their pleasures and neglect the worship of God. I cannot help feeling that such persons injure themselves far more even than they do others, though they do cause others to stumble.

"I refrain from expressing an opinion here on Sunday amusements. I prefer that each should follow his own conscience before God. I ask you to help us by strengthening your Church and to do your part to deepen the spiritual life of the Church, that her work in the world may be more effective to the helping of men."

admiration must descend as the dew upon the tender birch or like melting flakes of snow—the softer it falls the deeper it sinks into the mind. At well at the moment and you have performed a good action to all eternity.

Sell Bonds At Home.

Whether the government should float bonds at home or abroad is a question which might well be left to the people of Canada. Why not give them the first chance to take what they want? When the war loans were floated it would have been considered a failure if the whole amount had not been subscribed. But it ought to be possible now to offer the next loan in such a way to the people of Canada that they could take a part of it without any suggestion of failure. It would be well known that investors abroad were prepared to take the remainder.

The New Book.

Only as the Bible is approached in the human way, with an honest purpose to know what it is, and how it has come to us, and what it has done, can we rightly appreciate to ourselves its teaching, and understand the nature of its inspiration. We may see it in a new light, but it will be a new book, and it will speak with new power.

It is idleness that creates impossibilities, and where men care not to do a thing they shelter themselves under a persuasion that it cannot be done.

One of the most puzzling problems is: Why do some people act that way? No man ever died of poison by burying the gall of malice in his own breast.

RADIO EXPLAINED BY E. H. LEWIS INSTRUCTOR NEW YORK Y. M. C. A. RADIO SCHOOL

GRID CONDENSER AND STABILIZER IN THE RADIO. Frequency Amplifier Circuit.

No matter what the form of radio frequency amplifier coupling, the potential variations applied to the grids of successive tubes must be applied through grid condensers, in order that the high voltages of the plate batteries be kept off the grids. This means that the grid condenser is called upon to pass radio frequency, or become charged and discharged at high rate, without occasioning any more resistance than is necessary. A grid leak resistor must be used and is connected between the grid and the negative end of the filament rather than directly across the grid condenser. Otherwise, the potential applied to the grid might well be so high as to cause large damping of the applied grid potential variations and consequent weaker signals in the head telephone receivers of the final circuit. When the amplifier is to be used on the short waves common in broadcast-telephone programs the capacity of the grid condenser must be small, so that its reactance (capacitive reactance) is low compared with the grid leak resistance. The lower the value of this resistance and the shorter the wave length the smaller the capacity of the grid condenser must be.

grid leak gives some rectification of the oscillations, particularly when they are strong. This is an advantage rather than the reverse. Lower, since local noise are suppressed, as we as static, to some extent. There is also a limiting effect upon very strong signals, since they are not amplified in as great proportion as the weaker signals. Radio frequency amplifier circuits are quite often prone to produce howling noises, which are the result of oscillations generated somewhere in the circuits. If the grid circuits of the tubes are made slightly conductive, so that grid currents of very small value flow under operating conditions, the tendency to oscillate is greatly decreased. A very close variation of normal grid potential may be had by shunting the resistance element of a potentiometer across the filament lighting battery and connecting the sliding contact to the grid circuits. This method is shown in the diagram accompanying the previous article. When the sliding contact is adjusted to place a small positive potential on the grids the above provision for reducing the tendency to oscillate is accomplished. The plate potential and filament current may be first adjusted, and the circuits "stabilized" by adjusting the potentiometer.

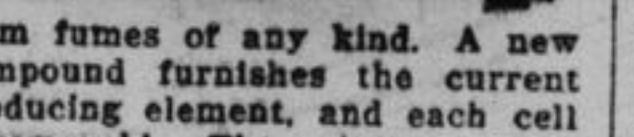
The use of a grid condenser and a grid leak resistor is a standard feature.

APPARATUS AND DEVICES By RALPH BROWN, RADIO ENGINEER

NEW ADJUSTABLE RADIO B BATTERY.

A new type of radio B battery has made its appearance. It is of the new no acid, no glass, no wooden separators type and is free from fumes of any kind. A new compound furnishes the current producing element, and each cell is removable. The units are circu-

lar and fit in a stand held together by four rods. Adjustable connections give variable adjustments for different potentials. The complete unit is very compact and presents a neat appearance. The manufacturers claim an extremely long life for this battery, which should be of great interest to the users of the dry cell type. In addition the claim is put forth that the cells operate noiselessly, eliminating the hissing and frying sounds that high amplification sometimes brings forth on the older types of B batteries. The unit has been designed for the layman, as well as the laboratory, and comes at a happy time, to the consumer in general.



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Will readers interested in these radio articles kindly communicate with the editor by mail?

HINTS FOR THE MOTORIST By ALBERT L. CLOUGH.

Spark-Plug "Preparations"

WHEN AN ENGINE persistently misses explosions in one cylinder, with the others firing properly, it is usually the plug in that cylinder which is causing the trouble. Possibly it is only short-circuited by foulness, and cleaning will restore ignition, at least temporarily, but there is in addition the possibility that its core is cracked or otherwise broken down. In addition to natural causes of failure, there is also the chance of a plug being broken by accidental violence, as by the slipping of a wrench. At least two spare plugs should always be carried on a car, so protected as to be fully protected against mechanical injury, for even if one of the engine plugs becomes fouled it is more convenient to change it than to do any cleaning, on the road. On many of the later engines the plugs are set into the combustion space, through the water jacket and in order to avoid the use of extra long shells and to avoid reducing the water space, the plug is set into a depression in the jacket casting, where it cannot be reached for removal or replacement, by an ordinary wrench, and unless a suitable spark-plug wrench is at hand, the motorist is helpless as to making a replacement. When buying plugs on the road becomes necessary, only those essentially like the ones recommended by the engine manufacturer should be accepted.

INCREASED COMPRESSION CAUSES KNOCKING

G. A. U. writes: I have attempted to increase the power of my 1912 car, by increasing the compression of the engine, which appears to be lower than that on modern engines. This was done by riveting a 1/4 inch aluminum plate to the head of each piston, but it has made the engine knock decidedly. Please explain why.

Answer: We believe that the original compression of your engine was higher than you realize, and that you have now raised it beyond the practical point, considering that present day fuel will stand for the compression that would be the fuel used in 1912. We also fear that the piston head plates become overheated sufficiently to cause preignition, because of the low heat conductivity of the joint between them and the piston proper. Longer pistons would be a better proposition than the plate construction, but we doubt whether this engine would now operate smoothly with much higher compression than that for which it was designed.

REAR TIRES OF UNEQUAL DIAMETER

W. H. L. writes: I have changed the rear tires of my car from the

STARTER WONT CRANK ENGINE

R. W. writes: When I depress the starting pedal of my car, the starting motor just makes a few revolutions and stops, without cranking the engine. There is current in the starter, the battery switch contacts seem good and the motor commutator looks all right. What do you think is the trouble?

Answer: Your starter drive is of the automatically geared spring type and apparently the motor has power enough to turn its armature shaft until the pinion engages the flywheel gear, but not power enough to carry the load of cranking the engine. Presumably, your motor does not get current enough to develop the required turning force, which may be due to a corroded cable contact at the battery, low current capacity on the part of the battery, bad brush contact at the motor or loose connections somewhere in the circuit. Of course, there is possibility of some trouble in the motor itself or in its alignment but this is not very likely. If you cut a large capacity ammeter into the motor circuit and find that the current flowing is less than 1.50 amperes, when the motor has stalled, there is some abnormal resistance in the circuit.

QUESTIONS OF GENERAL INTEREST TO THE MOTORIST WILL BE ANSWERED BY MR. CLOUGH IN THIS COLUMN, SPACE PERMITTING. IF AN IMMEDIATE ANSWER IS DESIRED, ENCLOSE SELF-ADDRESSED, STAMPED ENVELOPE.

TOOL-CRAFT BY FRANK I. SOLAR. HAND CRAFT PROJECTS. HOUSEHOLD REPAIRS.

FIGHTING PARROTS. MATERIAL - WOOD. Diagrams and instructions for building a toy parrot.

AND HERE'S HOW YOU MAKE IT The fighting parrots is an amusing toy, a good construction problem, and makes an ideal gift for a child. No special tools are needed for the construction unless down rod stock is not available. In that case a dowel block with which to make your own rods will be a convenience, although the rods may be planed and sand-papered to shape if care is taken. Parts A and B are laid out on wood by means of one-half inch squares. Trace the outlines through out; cut the squares and then cut the figures out carefully with a coping saw. Smooth holes in the two parts must be accurately located. In order to get them bored straight through the wood, bore first from one side and then when the hole is made half through the wood, bore from the other side of the stock. These holes receive the dowel sticks that hold the parts together. The dowels should fit parts B and C snugly, but A should move freely on the dowel which supports it. Part C needs no explanation. Simply saw and plane the wood to the required dimensions and then sandpaper it well. Bore a small hole in each parrot near the bill, to receive a string by which the toy is operated. The assembling is the next step. Bore or small screws are used to fasten the various parts of C together.

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NOTICE We have been very fortunate in securing the Eye-glass prescriptions of the Optical Department of R. J. RODGER, late of 132 Princess Street. As these will be of great value to Mr. Rodger's former patients in repairing broken lenses, etc., we hope to be of service to them in the future. R. ARTHEY, R.O. 143 PRINCESS STREET. VISION SPECIALIST

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Never tell over of a man. If you do not know it for certainty, the Canadian Pacific Railway earnings for week ending July 7th, 1922 \$468,000; decrease, \$272,000.