

Observation.
No line can be drawn between common knowledge of things and scientific knowledge. In strictness all accurate knowledge is scientific, and all exact reasoning is scientific reasoning. The method of observation and experiment in which great results are obtained in science is identically the same as that which is employed by every one every day of his life, but requires a new twist. If a child acquires a new toy, he observes its characters and experiments upon its properties, and we are all constantly making observations and experiments upon the things around us. But those who have never tried to observe accurately, will be surprised to find how difficult a business it is. There is not one person in a hundred who can detect the commonest occurrence without even an approach to accuracy. That is to say, either he will omit something which did occur and is of importance, or he will imply or suggest the occurrence of something which did not actually occur, but which he unconsciously infers must have happened. When two truthful witnesses contradict one another in a court of justice, it usually turns out that one of them, or sometimes both, are confounding their inferences from what they saw with what they actually saw. A witness that B picked his pocket, and that C knows that B was close to him, and that B was not the thief, but C, whom he did not observe. Untried observers mix together their inferences from what they see with that which they actually see in the most wonderful way, and even experienced and careful observers are in constant danger of falling into the same error. One inference from such as is at once full, precise and free from unconscious inference.—*Professor Huxley.*

Seven Troys.
The famous archeologist, Schliemann, wrote from Athens to a Russian paper, as follows: "I have just returned from Asia Minor, where I have at last finished that digging out of Troy which I began in 1870. During ten years I have struggled with great difficulties, and the most troublesome has been the large amount of debris under which the ancient city was buried. It has been necessary to dig down and dig up the ground for more than sixteen years before the surface. But I am fully recompensed for all my trouble. I found the remains of seven different cities; the last of them was the Ilion of Homer. That city was built by the Dorians, the last of them by the Dorians in the eleventh century before our era. In one of the buried cities I found many statues of Minerva with the owl's head, whence her name of Athena. In another city were found many images of the divinities. But the most interesting and important of all the discoveries is, of course, the city of Priam. Every article found in the ruins of that city bears unmistakable signs of having been destroyed by fire and in time of war. There were discovered many remains of a city of iron armor. I dug out and cleared away the debris from the entire wall that surrounded the city, and also from all the principal buildings. Now I am finishing the volume of my discoveries, and with full details of my discoveries, and containing 200 illustrations of the most important of the discoveries. My Trojan collection is now in London, and at the end of the year I shall take it to my villa in Athens, where it is first proof, built of marble and iron. I have received large offers for my collection from the United States, England, and Germany, but I cannot part with it for any money in the world."

Popular Ideas of the Cross.
In the West of England there is a tradition that the cross was formed of the mistletoe, which before that event used to be a fine forest tree. But has since been deemed to be a tree of death. Hence the gypsies believe that it was made of the ash tree. The nails used at the crucifixion, said to have been worked by Helena, are reported to have worked many miracles. One of these was thrown by her into the Adriatic during a storm, and produced a perfect calm. Another placed in the crown or helm of Constantine, was found in a mutilated state in the Church of the Holy Sepulchre. The third is said to be in the possession of Duomo di Milan, while that of Treves claims the fourth. In the time of Charlemagne a new relic was discovered in the shape of a species of cross in the blood of Christ. In Cheshire the *Arum maculatum* is called "Gethsemane," because it is said to have been growing at the foot of the cross, and to have received some of the blood of Jesus. The dirge of Maude died at the crucifixion. "Christ's tomb" is a very common plant in Palestine. In Scotland it was formerly believed that the dwarf which is stunted in growth, because the rods with which Christ was scourged were made from it. These are the popular ideas of the material of the cross, some of which, perhaps, never be entirely obliterated until the last great day, when "all things shall be made plain."—*All the Year Round.*

What to Say.
"I would rather walk," and not "I had rather walk."
"I don't want that I shall," and not "but I shall."
"Say for you and me," and not "for you and I."
"I am neither I am present or not," and not "present or no."
"Say that I know," and not "that I know of."
"Return it to me," and not "return it back to me."
"Say of seldom see him," and not "seldom or ever see him."
"Say 'fewer friends,' and not 'less friends.'"
"I mistake not," and not "if I am not mistaken."
"Say 'game is plentiful,' and not 'is plenty.'"
"I am weak in comparison with you," and not "to you."
"It rains very fast," and not "very hard."
"Say 'in its primitive sense,' and not 'primary sense.'"
"Say 'he was noted for his violence,' and not 'he was a man notorious for violence.'"
"Say 'thus much is true,' and not 'this much is true.'"
"Say 'I lifted it,' and not 'I lifted it up.'"
And last, but not the least, say "I take my paper, and pay for it in advance."

How to Boil and Stew.
To do either properly the food must be immersed at the beginning in a gradually boiling water, and the water must be allowed to reach the boiling point again immediately, and to boil for five minutes. The action of the boiling water upon the surface of either meat or vegetable is to harden the exterior, and to prevent the escape of either juice or mineral salts. After the pot containing the food has begun to boil the second time, it should be removed to the side of the fire and allowed to simmer until it is done. This simmering or stewing extracts all the nutritious qualities of either meat or vegetables. The pot should be kept closely covered unless for a moment when it is necessary to remove the scum. The steam will condense upon the inside of the cover, and fall back into the pot in drops of moisture, if the boiling is slow. Do not think that rapid boiling is faster than the gentle process of stewing. After the pot once boils you cannot make its contents cook any faster if you have fire enough under it to run a steam engine. Remember if you boil meat and fast it will be tough and tasteless, and most of its goodness will go up the chimney or out of the window with the steam.

What is Nickel?
Since the convenient five cent coin which in common parlance is called a nickel, the question above is asked, either mentally or orally, hundreds of times every day, and but few get an intelligent answer. In China and India a white copper, called pack-coin, has long been known and has been extensively used both there and in Europe for counterfeiting silver coin. About the year 1700 a similar coin was discovered in the copper mines of Saxony which had the appearance of being very rich, but in smelting it yielded no copper, and the miners called it kupfer-nickel, or copper-nickel. In 1751 Countstrahl announced the discovery of a new metal in kupfer-nickel, to which he gave the name of nickel. It was in combination with arsenic from which he could extract it only in part. The alloy of nickel and arsenic which he obtained was white, brittle, very hard and had a melting point nearly as high as cast-iron. It was not until 1823 that pure nickel was obtained by analysis of German silver which had for a number of years been produced at Suhl in Saxony. Its composition was ascertained to be copper 10 parts, zinc 5, and nickel 4. It is a white metal, as soft as silver, and is susceptible of a very high polish, but becomes too brittle and hard to be hammered or rolled, and can be worked only by casting. Pure nickel is a white metal with a lamellar reaction in the air. Unlike silver, it is not acted on by the vapor of sulphur, and even the strong mineral acids attack it but slightly. Nickel has the hardness of iron and like it, has strong magnetic properties, but cannot be welded and is soldered with difficulty. Pure nickel has heretofore been used chiefly for ornamental purposes, and its resistance and power to resist atmospheric influences, admirably adapt it. Within the last year the French have succeeded in rolling the metal into plates from which they have obtained a variety of useful articles. Nickel, which consists of equal parts of copper and nickel, with a little tin, may be cast into very delicate forms, and is susceptible of a high polish. It is extensively mined in Saxony and in Sweden, but the late discovery of a new ore (a silicate of nickel) in New California will probably supersede all the other ones. The inexhaustible supply of this ore, the ease with which it can be smelted and the richness of the ore will probably supersede the use of the arsenical ores, and yet bring nickel into common use. Switzerland in the year 1852 made a coin of German silver, which is identical in composition with our nickel coin. The United States made nickel cents in 1856, and eight years later, in 1864, the Government of Belgium adopted nickel coinage in 1880 and Germany in 1873. England has lately coined nickel pennies for Jamaica, but at home she and France adhere to the clumsy copper-nickel change.

Buoyancy of Water.
Another terrible steamboat slaughter! Presence of mind and a slight knowledge of the specific gravity of the human body would have saved much of this frightful loss of life. There was loose wood enough about the boat to have floated ten times the number of passengers in the ill-fated vessel, if it had been used with judgment. The human body weighs about a pound in the water, and a single chair will carry two grown persons. That is, it will keep their heads above water, which is all that is necessary when it is a question of life or death. The burning vessel was close to shore, the water was calm and warm, and these passengers might easily have jumped overboard and paddled laughing ashore, if they had only possessed and used the simple knowledge that one finger placed upon a stool, or a chair, or a small box, or a piece of board, would easily keep the head above water, while the body would float in the water, and be used as a paddle to propel toward the shore. It is not at all necessary to know how to swim to be able to keep from drowning in this way. A little experience, a little knowledge of matter and faith in it, is all that is required. We have seen a small boy who could not swim a stroke propel himself back and forth across a deep, wide pond by means of a board, and that of a struggling group are often drowned in the desperate scramble of a life-and-death struggle to climb on top of a piece of wreck or other floating object, not large enough to keep them all entirely above water. This often happens when pleasure boats capsize. All immediately want to get out of the water on top of the overturned or half-filled boat, if all are drowned except the one whom the wrecked craft will wholly bear up. If they would simply trust the water to sustain ninety-nine hundredths of the weight of their bodies, and the disabled boat the other hundredth, they might all be saved under the most circumstances. An overturned or water-filled wooden boat will sustain more people than it will carry. It would keep the heads above water of as many people as it could get its bows under the water. These are simple facts, easily learned, and are simple facts save your life.—*Trenton (N. J.) Gazette.*

About Leeches.
They live from fifty to 100 years, and are sometimes even older than that. Most of the leeches used by the men of this country are brought from Northern and Northwestern Europe, where they abound in the swamp lands in great numbers. They are imported to this country by Dr. White, who lives in Rhode Island, and who has great purging ponds, where he prepares the digestive little creatures for the market. Cleveland dealers get their supplies from these ponds in New York city. There are two or three firms in this city who wholesale them. They sell during a single year to the small drug stores and the physicians throughout the city more leeches than they could use. The price of about \$1 per dozen, and are easily and cheaply kept in supply. The American leech is found in parts of Mississippi and Pennsylvania, but for bleeding purposes are considered worthless, the foreign, or rather the Swedish leech being the best and consequently the highest priced. At Bordeaux, France, is an immense piece of swamp land, where the leeches are captured by the millions. These leeches are large numbers of aged and infirm horses and cattle, brought thither from the surrounding cities. These animals are driven into the swamps, the leeches fasten themselves on the beasts in great numbers, and the animals again reach dry land, and the leeches are gathered from their bodies, packed in rich, black earth, and shipped to this country. Not less than 30,000 horses were engaged in this way alone, last business during last year alone. The leech is a queer creature. It takes an entire year for it to digest a meal, and if properly taken care of, it will live a long time without eating. But they are very delicate, nevertheless, and are often afflicted with diseases peculiar to the leech. Among these afflictions is a fatal skin disease, which is called "Pain de leech," and before its ravages can be stopped.—*Cleveland Press.*

A Pedagogue told one of his scholars, a son of the Emerald Isle, to spell hostility. "H-o-r-e-a, horse," commenced the boy. "Not that," said the teacher; "but host-ty-ty." "Sure," replied Pat, "an'm'd ye tell me, you the other day, to say loss? Faith it's wan thing wid ye one day, and another the next."

A Nice Infant.
Infancy has its privileges. A woman was arrested in Presburg, Hungary, for receiving stolen goods. She was by birth a Jewess, but six months previous to her detection had been baptized in a Roman Catholic Church. When put on trial she pleaded that she was no infant, and could not, therefore, be held answerable for what she had done—the date of birth in Hungary running according to the date of baptism—and after serious cogitation the tribunal declared the defense a good one, and that she, a woman of 40, was legally but 6 months old, with a score or two years before her. The woman was discharged, and after serious cogitation the tribunal declared the defense a good one, and that she, a woman of 40, was legally but 6 months old, with a score or two years before her. The woman was discharged, and after serious cogitation the tribunal declared the defense a good one, and that she, a woman of 40, was legally but 6 months old, with a score or two years before her.

Hallucination of the Senses.
Professor Maudsley remarks, in a recent lecture, that one striking feature observed by medical men who have had cases of hallucination under their charge is that the patients cannot be convinced that the objects they see, the sounds they hear, and the smells they perceive, have no real existence, and that the sensations they receive are the result of their excited nerves. It frequently happens, too, that a person who suffers from hallucination in respect of one sense has the others unaffected, and is, on all other matters, perfectly normal. Hallucination may arise either from an idea on which the mind has dwelt, appearing as a vivid picture, or from an excitement of the sensory ganglia. It is said that Newton, Hunter, and some others of equal professional eminence, could, at will, picture forms to themselves till they appeared to be realities.

Answer This.
Did you ever know any person to be ill without inaction of the Stomach, Liver or Kidneys, or did you ever know any person who was well either way, but who was ill in any other way? You ever know or hear of any case of the kind that Hop Bitters will cure? Ask your neighbor this same question.

Cathartic Pills
Combine the choicest cathartic principles in medicine, in proportions accurately adjusted to secure activity, certainty, and safety. They are the result of years of careful study and practical experience, and are the most effective remedy yet discovered for diseases caused by derangement of the stomach, liver, and bowels, which require prompt and effectual relief. They are perfectly safe, and applicable to all classes of patients. They act directly on the digestive and assimilative processes, and restore a regular healthy action. Their extensive use by physicians in their practice, and by all civilized nations, is one of the many proofs of their value as a safe, sure, and perfectly reliable purgative medicine. It is compounded of the concentrated virtues of purely vegetable substances, they are positively free from opium or any injurious properties, and can be administered to children with perfect safety.

As a Dinner Pill they have no equal.
While people in their action, these PILLS are the most thorough and searching cathartic that can be employed, and never give pain unless the bowels are inflamed, and then their influence is healing. They stimulate the appetite and digestive organs; they operate to purify and enrich the blood, and secure recovered health and vigor to the whole system.

As a Dinner Pill they have no equal.
While people in their action, these PILLS are the most thorough and searching cathartic that can be employed, and never give pain unless the bowels are inflamed, and then their influence is healing. They stimulate the appetite and digestive organs; they operate to purify and enrich the blood, and secure recovered health and vigor to the whole system.

As a Dinner Pill they have no equal.
While people in their action, these PILLS are the most thorough and searching cathartic that can be employed, and never give pain unless the bowels are inflamed, and then their influence is healing. They stimulate the appetite and digestive organs; they operate to purify and enrich the blood, and secure recovered health and vigor to the whole system.

As a Dinner Pill they have no equal.
While people in their action, these PILLS are the most thorough and searching cathartic that can be employed, and never give pain unless the bowels are inflamed, and then their influence is healing. They stimulate the appetite and digestive organs; they operate to purify and enrich the blood, and secure recovered health and vigor to the whole system.

As a Dinner Pill they have no equal.
While people in their action, these PILLS are the most thorough and searching cathartic that can be employed, and never give pain unless the bowels are inflamed, and then their influence is healing. They stimulate the appetite and digestive organs; they operate to purify and enrich the blood, and secure recovered health and vigor to the whole system.

As a Dinner Pill they have no equal.
While people in their action, these PILLS are the most thorough and searching cathartic that can be employed, and never give pain unless the bowels are inflamed, and then their influence is healing. They stimulate the appetite and digestive organs; they operate to purify and enrich the blood, and secure recovered health and vigor to the whole system.

W. H. TALBOT, MACHINIST.
The Haskins Engine, Gardner Governor, Utica Steam Gauge. Engines, Threshing Machines, Wood Sawing Machines, Horse Powers, Mowing, Reaping and other Machines repaired. Cider Mill Screws, Saw Arbors, &c., &c., made to order. Shating, Pulleys, Hangers, Couplings and mill supplies furnished on short notice. Shop on Chicago street, near mill race.

WYMAN & CO.,
South Bend, Ind.
Have the facilities for selling goods cheaper than any one that has not a similar system. We are selling goods cheap now. We sell goods cheap all the time.

WYMAN & CO.,
South Bend, Ind.
Have the facilities for selling goods cheaper than any one that has not a similar system. We are selling goods cheap now. We sell goods cheap all the time.

WYMAN & CO.,
South Bend, Ind.
Have the facilities for selling goods cheaper than any one that has not a similar system. We are selling goods cheap now. We sell goods cheap all the time.

WYMAN & CO.,
South Bend, Ind.
Have the facilities for selling goods cheaper than any one that has not a similar system. We are selling goods cheap now. We sell goods cheap all the time.

WYMAN & CO.,
South Bend, Ind.
Have the facilities for selling goods cheaper than any one that has not a similar system. We are selling goods cheap now. We sell goods cheap all the time.

WYMAN & CO.,
South Bend, Ind.
Have the facilities for selling goods cheaper than any one that has not a similar system. We are selling goods cheap now. We sell goods cheap all the time.

WYMAN & CO.,
South Bend, Ind.
Have the facilities for selling goods cheaper than any one that has not a similar system. We are selling goods cheap now. We sell goods cheap all the time.

WYMAN & CO.,
South Bend, Ind.
Have the facilities for selling goods cheaper than any one that has not a similar system. We are selling goods cheap now. We sell goods cheap all the time.

THE BERRIEN COUNTY RECORD
PRINTING HOUSE
The Largest in South-Western Michigan
Only Steam Printing Office in Berrien County.
Our Machinery is of the most approved and best make, and our facilities for turning out First-Class Work are unsurpassed in this section.

THE BERRIEN COUNTY RECORD
Is the best, and gives the MOST LOCAL NEWS, of any paper in the County.
Terms:—\$1.50 per Year; Six Months 75c; Four Months 50c.
J. G. HOLMES, Publisher.

THE BERRIEN COUNTY RECORD
Is the best, and gives the MOST LOCAL NEWS, of any paper in the County.
Terms:—\$1.50 per Year; Six Months 75c; Four Months 50c.
J. G. HOLMES, Publisher.

THE BERRIEN COUNTY RECORD
Is the best, and gives the MOST LOCAL NEWS, of any paper in the County.
Terms:—\$1.50 per Year; Six Months 75c; Four Months 50c.
J. G. HOLMES, Publisher.

THE BERRIEN COUNTY RECORD
Is the best, and gives the MOST LOCAL NEWS, of any paper in the County.
Terms:—\$1.50 per Year; Six Months 75c; Four Months 50c.
J. G. HOLMES, Publisher.

THE BERRIEN COUNTY RECORD
Is the best, and gives the MOST LOCAL NEWS, of any paper in the County.
Terms:—\$1.50 per Year; Six Months 75c; Four Months 50c.
J. G. HOLMES, Publisher.

THE BERRIEN COUNTY RECORD
Is the best, and gives the MOST LOCAL NEWS, of any paper in the County.
Terms:—\$1.50 per Year; Six Months 75c; Four Months 50c.
J. G. HOLMES, Publisher.

THE BERRIEN COUNTY RECORD
Is the best, and gives the MOST LOCAL NEWS, of any paper in the County.
Terms:—\$1.50 per Year; Six Months 75c; Four Months 50c.
J. G. HOLMES, Publisher.

Children's Remedy
FOR
Pitcher's Castoria.
Mothers like, and Physicians recommend it.
IT IS NOT NARCOTIC.
CENTAUR LINIMENTS: The World's great Pain-Relieving remedies. They heal, soothe and cure Burns, Wounds, Weak Back and Rheumatism upon Knees, and Sprains, Galls, and Lameness upon Feet. Cheap, quick and reliable.

Children's Remedy
FOR
Pitcher's Castoria.
Mothers like, and Physicians recommend it.
IT IS NOT NARCOTIC.
CENTAUR LINIMENTS: The World's great Pain-Relieving remedies. They heal, soothe and cure Burns, Wounds, Weak Back and Rheumatism upon Knees, and Sprains, Galls, and Lameness upon Feet. Cheap, quick and reliable.

Children's Remedy
FOR
Pitcher's Castoria.
Mothers like, and Physicians recommend it.
IT IS NOT NARCOTIC.
CENTAUR LINIMENTS: The World's great Pain-Relieving remedies. They heal, soothe and cure Burns, Wounds, Weak Back and Rheumatism upon Knees, and Sprains, Galls, and Lameness upon Feet. Cheap, quick and reliable.

Children's Remedy
FOR
Pitcher's Castoria.
Mothers like, and Physicians recommend it.
IT IS NOT NARCOTIC.
CENTAUR LINIMENTS: The World's great Pain-Relieving remedies. They heal, soothe and cure Burns, Wounds, Weak Back and Rheumatism upon Knees, and Sprains, Galls, and Lameness upon Feet. Cheap, quick and reliable.

Children's Remedy
FOR
Pitcher's Castoria.
Mothers like, and Physicians recommend it.
IT IS NOT NARCOTIC.
CENTAUR LINIMENTS: The World's great Pain-Relieving remedies. They heal, soothe and cure Burns, Wounds, Weak Back and Rheumatism upon Knees, and Sprains, Galls, and Lameness upon Feet. Cheap, quick and reliable.

Children's Remedy
FOR
Pitcher's Castoria.
Mothers like, and Physicians recommend it.
IT IS NOT NARCOTIC.
CENTAUR LINIMENTS: The World's great Pain-Relieving remedies. They heal, soothe and cure Burns, Wounds, Weak Back and Rheumatism upon Knees, and Sprains, Galls, and Lameness upon Feet. Cheap, quick and reliable.

Children's Remedy
FOR
Pitcher's Castoria.
Mothers like, and Physicians recommend it.
IT IS NOT NARCOTIC.
CENTAUR LINIMENTS: The World's great Pain-Relieving remedies. They heal, soothe and cure Burns, Wounds, Weak Back and Rheumatism upon Knees, and Sprains, Galls, and Lameness upon Feet. Cheap, quick and reliable.

Children's Remedy
FOR
Pitcher's Castoria.
Mothers like, and Physicians recommend it.
IT IS NOT NARCOTIC.
CENTAUR LINIMENTS: The World's great Pain-Relieving remedies. They heal, soothe and cure Burns, Wounds, Weak Back and Rheumatism upon Knees, and Sprains, Galls, and Lameness upon Feet. Cheap, quick and reliable.