

HOW THE BRAIN WORKS.

THE CHIEF OF THE ORGAN ARE WORRY AND SHOCK

Interesting Account of the Relation of the Nervous and Motor Areas Which are Constantly at Work. Although there are many things about the brain which scientists have not yet fathomed, still great strides have been made recently in knowledge of what the cranium contains.

Thus, if an epileptic commences a fit by twitching the right thumb or hand, one would find the cause in its nerve centre on the left side of the brain. We are now able to make a map of the surface of the brain according to the various functions.

There are five large sensory areas: First, sight, which is the largest, at the back. Smell, taste and hearing have their positions at the side of head, in the temporal region and inner surface. Touch resides at the top of the brain, while the large motor area occupies the bulk of the middle brain.

THE MOTOR AREA. It is so arranged that the motor cells of the lips are in front, then those of the hand, arm, and so on, backward to the foot. The simplest brain action is as follows:—If a person touched anything hot or sharp the painful sensation would be telegraphed to the sensory area. The sensory cell which received the message would wire on to the motor cells to pull the hand away.

It is called a reflex act. A lemon may be walking toward a precipice, and the impression of danger as telegraphed to the optic lobe, and thence a message is sent to the motor area to turn and walk away. But, supposing the lemon is not walking, the motor cells to receive instruction and guide the individual in walking? He feels with his hands and feet, and the sensory cells receive messages from them now to direct the steps. The impression stamped on the braincell will guide the individual under similar circumstances.

It is easier to remember a lemon or a horse than a mathematical formula or a poem. The reason is that whereas the former have impressions stamped on several centres, as sight, touch, smell, taste, hearing, speaking and writing, the latter are stamped merely on the speaking, hearing, seeing and writing centres. These centres are not nearly so retentive.

Thus a lemon is stamped twice in the optic centre—once as a yellow oval fruit and once as the printed fruit. So there is an impression of a lemon in a pictorial or photographic centre. The poem or formula is only stamped in the former.

Who photograph know well that a good impression requires correct exposure. Under exposures are poor and do not last. It is the same with our brains. We cannot get a good impression of a subject matter into our brains—frequent repetition when learning by rote, and careful first impressions, especially the good, is especially wise in the training of children to give them impressions of the good and the beautiful, and bad will be forced upon them soon enough.

Not only the memory, but the attention requires training, in a word, it is necessary to the organ. If we sit before a preacher and hear every word he says, but cannot recall it a moment afterwards, it is because our attention has been at rest. If we wish to recall a subject the stimulus must pass to the prefrontal or registry office, whence the attention is sent to the brain cells containing the sensations to be recalled. The great problem is to keep the brain healthy and active.

WITHOUT STRAIN. If the blood is not right the brain cannot be, for it is nourished by the blood. The chief enemies of the brain are worry, which disorganizes the machinery, shock, which paralyzes the brain, worry, which disorganizes the machinery, shock, which paralyzes the brain, worry, which disorganizes the machinery, shock, which paralyzes the brain.

WANT BACHELORS TAXED. At a meeting of middle-class women of Athens, held recently, it was decided to ask Parliament to impose a heavy tax on all bachelors over 30 years old. The passage of any such measure is said to be unlikely, for the Chamber has been so full of proposals of well-to-do bachelors. Consequently the tax would hit them heavily.

GOUGHT TO BE AMIABLE. She seems like an amiable girl. Well, who wouldn't be amiable with a lover in the ice cream business?

CANADA'S SOLDIER POLICE

THEIR DUTIES AND RESPONSIBILITIES IN THE NORTH-WEST.

Number of Officers and Men in the Force Their Rate of Pay—Like the Life of a Regular Soldier in Barracks—Some Incidents of Their Life on the Plains, and Showing Their Goodness in Face of Great Danger.

And again: At Golden, in the heart of the Rockies, there was a pretty tough mining camp. Major Steele was commanding the police there, and in spite of him measures the miners were beginning to get a little out of hand. One night it culminated in a riot. Sergeant Fury, a determined, bulldog like man, was sent, with two constables, to arrest the ringleaders.

Of course it was an invitation that the turbulent miner had no idea of accepting. Fury walked in, and going up to the man who was shouting, said, "Come with me, arrest you."

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HOUSEHOLD.

HOUSEWIFE'S PROGRESS.

It is a trifle, apparently, writes Marion Harland, when a woman taboos air in salad dressing because she "has never been used to putting it in," when she thinks mint sauce a "trashy" accompaniment to roast lamb, and "won't hear of hot sauce with cold pudding," or whipped cream as an accompaniment to ice-cold raw tomatoes.

Each protest is a symptom of decadence which is wilful, not inevitable. She has stopped learning because she has become stiff, but disuse is the cause of the change.

Our housewife may lay the saying to heart. If there is a better way than hers of doing anything, let us women pickets to give a wedding supper should be on the alert to possess ourselves of it. It is not true that it is easier for young people to keep themselves and their houses abreast of the times than it is for their elders.

USES FOR PAPER. A double newspaper with the corners folded down for the bib and tied around the waist with a strip of muslin makes a nice apron for dish-washing and baking.

SOME GOOD RECIPES. Lemon Ice Cream—Two quarts of milk, one quart of cream, three cups of sugar, three eggs, quarter of a box of gelatine, juice of two lemons and one orange, grated rind of three lemons.

Gift for a Bride. At a recent wedding the bridesmaids gave to the bride a chest of linen as a joint present.

Man's Inconsistency. You are the apple of my eye, my dear, he said. And only yesterday you told me that I was a peach!

Wheat and Stocks. It is not necessary to have thousands invested in grain and stocks. Carefully invested on margin will net you some profit.

White's Phospho Soda. An Effervescent Phosphate, excellent for liver, stomach, and bowels.

On Light Duty. A crowd of weird death-songs, and cheered long lay to fight to the death like an Indian brave.

Household. A favorite form of table decoration in Paris this summer is to place a basket or tray of flowers in the center of the table.

Housewife's Progress. It is a trifle, apparently, writes Marion Harland, when a woman taboos air in salad dressing because she "has never been used to putting it in."

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EVERY REASON TO REJOICE. Here are some extracts from a rather long letter from a gentleman who has just arrived in the Stockton, Kan., News.

PARIS PUBLICATIONS. There are now published in Paris 2,285 periodicals, nearly 100 more than were issued at the corresponding date last year.

A BUSINESS COURTHSHIP. Mr Perkins is a good business man, isn't he, daughter? He's 58, married, ten minutes after he was presented to me he told me he was a widower.

THE "BALMORAL." Free Bus. Plan. Hotel Carlisle, Opposite G.R. Depot, St. James' Hotel, Opposite G.R. Depot, La Toscana, 10c. RELIANCE CIGAR FACTORY, Montreal.

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LADIES WANTED. To represent us in this district. ITALIAN DRUG CO., Montreal. TORONTO CUTTING SCHOOL offers special advantages to all who are desirous of learning the art of cutting and fitting.

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CARD INDEX... The only perfect system for... The Office Specialty Mfg. Co., 122 and 124 St. St., Toronto, Factory: Newmarket.

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Health Restor D. Without medicine, without dieting, without fasting, without any of those things, we restore the stomach, lungs, liver, blood, kidneys, brain and breath.

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