for his course, make a circle in his efforts to go forward, turn-very much narrower than that of glass. Beside the same for his course, make a circle in his enorts to go forward, turn-very much narrower than that of glass. Beside the same these three marks show that man was intended for a vegeta-ing always to the left? It may be said because the left being conductive power which prevents heating in a given spot ble eater. First, the teeth. The fore ones in carnivorous anithe less used side, and, therefore, less developed and weaker, without also heating others, tends to cool down very rapidly must give way to the superior energy of the right; but this any portion which is heated above the rest, while the reverse reason does not hold wood, because we walk with our feet and is true of glass. Again, air is a very had conductor of heatmust give way to the superior energy of the right; but this, any portion which is heated above the rest, while the reverse reason does not hold good, because we walk with our feet and is true of glass. Again, air is a very bad conductor of heat— not with our hands, and the feet are educated alike. We are ambidexters as regard our feet. In military evolutions we are taught to put the left foot first—to start off with the left foot; but in the dance we are instructed to start off with the right. Beside, we know of a person left-handed from his infancy, who, being lost in a snowstorm on Seekonk Plains, near Paw-who, being lost in a snowstorm on Seekonk Plains, near Paw-tucket. Mass. wandered in concentric circles, or spirals, for taught to put the left foot; being lost in a snowstorm of Seekonk Plains, near Paw-tucket. Mass. wandered in concentric circles, or spirals, for tox to the described subscuently is what is fechnically how. reason does not hold good, because we walk with our feet and is true of glass. Again, air is a very bad conductor of heattucket, Mass., wandered in concentric circles, or spirals, for toys, to be described subsequently, is what is fechnically known more than two hours, before being relieved, turning always as the "pipe." It is a wrought-iron tube, from four to five to the left. Ambidexters, or those who can use equally well feet long with a small knob at one end and a wooden handle either hand, generally prefer to employ the right even when t at the other, terminating in a mouth-piece through which the using an instrument not specially designed for the right hand. | air is forced; the bore extending entirely through the instru-Those who like gymnasts, or pugilists, have to use the left ment. The end upon which the knob is fixed is used to colwith equal facility with the right hand, are compelled to submit to a severe course of discipline to attain equal force and dexterity with the left that they possessed with the right, 'The word just used-dexterity-perhaps, may be a clue to the question underlying these suggestions. Dexter, the right, sinister, the left. May there not be some meaning in these Latin terms and their derivations, physical, moral, and generally philosophical, beyond their application to manual operations? To be sure the Latin rectus may be offset against the other term, but the practice of the Romans, as well as our own justifies their interchange.

In some sense all mechanics and laborers are ambidexters. The wood-chopper should wield his axe with the right hand dresser of timber or the ship-carpenter, the adze; so the blacksmith's striker with the sledge, the farmer with the hoe, rake, or flail, and the housewife with her broom; but each and all prefer to give the dexter hand the precedence. Our guardian It is elongated by the swinging of the pipe to-and fro like a angel is the "angel over the right shoulder;" the sheep go to pendulum, the centrifugal force thus generated, stretching it the right, the goats to the left; we give the right hand of fellowship, and of friendship, and in the latter case if circumstances demand the proffer of the left, the act is always accompanied with the palliating excuse "nearer the heart," Possibly this phrase has a physiological significance; muscular action or violent exertion should be kept as far from the delicate and active seat of life as possible for fear of too great of iron containing a cylindrical hole the size of the desired a stress upon that organ.

that compels us to prefer the right; what is it?

4.000 0 GLASS BLOWING .--- HOW BOTTLES ARE MADE,

In a former article we treated of the composition of glass, quired. During our recent sojourn at Pittsburgh, we took essizes the punty and carrying the bottle to the annealing oven pecial notice of the glass manufacture, of which nearly all detaches it by a quick jerk. This completes the work on an branches are represented there, and with the readers permis- ordinary champagne bottle. sion we will step into some of the numerous establishments and witness, first the

MANUFACTURE OF BOTTLES.

lect a mass of the fused glass, to be fashioned into a bottle. With this simple instrument the workman approaches the "working hole" of the furnace, plunges the end into the fused glass, and rolling it around collects a ball of the material, and, immediately withdrawing it, blows a slight blast through the tube which expands a small hollow in the mass. After the ball has cooled a little, he plunges it in a second time, thus accumulating more material, and repeats this process until sufficient material has been taken up. As soon as the ball is large enough it is brought into one ef the hollows of the 'marver "-a wooden block in which hemispherical concavities have been excavated, the hollows being kept moistened with water. The mass is rotated in one or more of these cavnear the blade, as well as with it at the handle end; so the ities while a gentle blast is forced through the tube to keep open the internal opening. After a little the plastic mass assumes the form of a pear. This pear is now subjected, after turning the tube on its major axis, and expanded by a strongassumes the form of an egg with a long tubular neck extending from the smaller end. As soon as this stage in the process is reached, the vessel is inserted into the mold-a block not accident, circumstance, convenience, nor even tradition | a reheating is necessary. This time however, the bottom only as it acquires enough plasticity, an assistant-usually a boywho has in the meantime attached a small mass of fused glass to a rod of iron called a "punty," places this instru-

the left in preference to the right. This view receives color press it inward. An iron tube could not be thus manipulated lasses into her pasture, or to make a plum pudding. Yet man from the fact that even among savage and uncivilized peoples it would be impossible to heat it upon one side without heat. has, and he can do it safely. But the doctor denies both the fact and its conclusion. He quotes from Cuvier, who says that memory of left handed men is small. The Benjamites on either side of the point to which the heat should be did. the right is preferred. Among them, as among ourselves, the ing the other, and the neat work also outer along the di-proportion of left-handed men is small. The Benjamites on either side of the point to which the heat should be di-tion of vegetables. His weak jaws and small canine teeth were considered odd by the children of Israel for their pecu-rectly applied. Beside this, the iron would never assume would not allow him, in a state of nature, to live on herbage or fiesh." He alludes to the three tests which should deterliarity of being left-handed. Either in ancient or modern that doughy plasticity possessed by properly tempered and of nesh. The and the second, times the proportion of left-handed men was always small. The limit between the temperature when it be the make of his digestive apparatus; third, the eating habits of the kinds of animals nearest man. And he contends that eating it. In fact, he remarks that all omniverous quadrupeds, like the bear, the raccoon, the opossum, the hog, have no lat-eral motion to their back teeth. But man, in common with the cow and fruit eaters, has this peculiarity. Second, the form of the digestive apparatus. This, with the grass eaters, is always long and complex. With the flesh eaters, always short and simple. With the fruit eaters, as to length, it is intermediate between the two classes; as to simplicity, not so simple as the flesh eaters, not so complex as the grass eaters. But man has precisely the peculiarity here of the fruit eaters. His intes-tines are not short, like the flesh eaters; nor complex, like the grass eaters; but intermediate—showing, therefore, that he was meant to eat the grains and fruits. It is true, as the doc-tor remarks, some cows and horses have been known to eat and relish oysters and fish. But this fact does not show an origi ways does to these animals, if the distillery-fed cow has her teeth diseased and crumbling, like those of the over-fed urchin, we must reason in the same way as to man. Third, the eating habits of the animals next to man. Now what animals are most similar to him, in make, in teeth, in digestive apparatus? The gorilla, the ourang, the chimpanzee. Teeth and intes-tines are similar. But these are all, with our other monkey friends, *fruit* eaters. Flesh is detrimental to their health. Now if all these facts do not show, as the doctor is inclined to think they do, that men and women are meant to be grain eaters exsumes the form of a pear. This pear is now subjected, after *clusicely*, they certainly do show that we were not meant to be reheating in the working hole to a complex manipulation. Falstaffs with unbounded stomachs. They do show that we were intended for simple food, like corn, or the apple or the potato; and that such food is compatible with high health. As the rejoicing invalid said, "If man could only know the inspiout longitudinally and, at the same time, it is kept round by ration that will come from the feed of rye porridge and oas turning the tube on its major axis, and expanded by a strong- meal tea, he would pay higher prices for that than for the gor-er blast than heretofore. By these means combined the metal geous lunch." They do show that our vast varieties of food, though produced by that glory of man, woman, are slightly demoniac in their origin and results.

We have hinted that often disease in its various forms could be traced to an unhappy digestion and the contents of the stomach. The doctor is sure of this cause, though not so wild bottle—and expanded to fit it by a strong blast, at the same as to think it the only one. Now all know the weak saws that Is there not something in this universal instinct—apart time its neck is elongated by a succession of jerks, the inertia a man will whine out when his lungs, nerves, or stomach, are in from custom—inst demands investigation at the hands of our jeft the body of the bottle being sufficient for the latter pur-scientists, our social philosophers, and our moralists? It is pose. By this time the yet unfinished bottle is so cool that never good for anything. Timberited bad nerves from my not accident circumstance, convenience, our tradition is a relating increase on wonience, and our moralists of the bottle increase and will when out when his lungs. Here we the source of the bottle is so cool that never good for anything. Timberited bad nerves from my a reheating is necessary. This time however, the bottom only good mother." (Not a very shining compliment). But the is heated in order to give it the requisite concavity. As soon doctor would say, "Friend, your digestion may be at the bottom of part of the trouble." Don't be too fast. And to show this he proceeds to pile up a small mountain of cases, illustrating how diseases far off from the stomach can be reached at that pampered center. We will give a few of the cases. A ment with its little ball of glass as near the center of the bot- lady teacher. For two months in constant nausea, utterly pros-In a former article we treated of the composition of glass, and the construction of the furnaces in which the materials are melted preparatory to the operations by which the fused glass is made to assume the various familiar forms of glass-ware. The arrangement of these furnaces varies considerably, but a common form is that of a truncated cone with a chim-supported by the punty attached to the bottom. The neck is supported by the punty attached to the bottom is attac ney at the apex. Around and upon the interior of the base, the pots are placed, so that the workmen are distributed en-the top to form the rim, and a finish is given to it by rotating ed. A woman blind for three and ahalf months. Slight doses tirely around the furnace. The implements used in glass- it; the punty resting across the edge of a bench upon which of guaiacum administered to the stomach brought back her blowing are of the simplest description and few in number. the workman is seated, who, while rotating the bottle, applies sight in one week. A gentleman with terrific pains at the On this account a great degree of manual dexterity is re- an iron instrument to the yet plastic glass. A boy then heart, an intermittent pulse, was sure his heart was discased quired. During our recent sojourn at Pittsburgh, we took es- siezes the punty and carrying the bottle to the annealing oven His doctor, in one attack, sounded his stomach, found in it the greater part of a roast chicken. The chicken removed, heart all right. Then the common case of a cold. It is known that ordinary champagne bottle. The process we have described is varied in some particulars in making other kinds of bottles, for perfumers, druggists, etc. We have often heard people express wonder that letters panels figures of animals and other ornaments could be MANUFACTURE OF BOTTLES. Before we commence the description of glass-blowing, how-ever, it will be proper to state the general principles upon which glass-blowing depends. If iron, or lead, or clay, in a plastic state, were the material desired to be worked, we should the application of this method entirely impossible. What is it then about glass that makes it advantageous to work it in this manner? Why can it not be cast in the shapes re-with the checked biown into a pear-shaped ball of the nick. The glass having been blown into a pear-shaped ball of the right size is advantageous to work is the shapes re-with the exception of an aperture for the neck. The glass can been blown into a pear-shaped ball of the right size is advantageous to work is shaped ball of the right size is advantageous to work it the shapes re-with the checked blown into a pear-shaped ball of the right size is advantageous to work with the science of an aperture for the neck. The glass can be blown into a pear-shaped ball of the right size is advantageous to work with sores, and the cold will often and at once yield. A lady with disease of the liver. Often with most acute, fierce pains from the blown in the side of fuel of the right size of the liver. Often with most acute, fierce pains from the blown in the side of such work is generally made in halves who entirely lost her voice—of a very costive habit. A suc-cessful treatment of the digestive organs (reached through the back almost instantly her voice. Ayoung child, having been blown into a pear-shaped ball of the right size always ailing, weak, irritable, sturid, body covered with sores, in this manner? Why can it not be cast in the shapes re-quired like iron? or why can not iron be blown like glass? A having been blown into a pear-shaped ball of the right size always ailing, weak, irritable, stupid, body covered with sores, comparison of the properties of the two substances will eluci-is placed in the mold and a sharp blast forces it into every food, the greater the appetite. A diet exclusively of baked comparison of the properties of the two substances will eluci-date the whole matter. Iron is one of the best conductors of heat, while glass is one of the worst. A body of iron unless very large, will when heated or cooled in one part rapidly be-EFFECTS OF IMPROPER DIET. The *Hadical* for January contains an able and somewhat frumorous review of a new work on health, by R. D. Mussey, M. D., which, not without show of reason refers a vast num-ber of the real and imaginary "ills to which flesh is heir," to improper diet. The following extract from this spicy review will be read with interest by gourmands and Grahamites, as ery perfect. Now we have reluctantly gone through with this dismal cat-alogue to show a great truth: that often, after raking heaven and earth to reduce a disease located far away from the unsus-

come heated or cooled in all its parts. Glass on the contrary may be heated at any one point to redness, while parts very near to the heated portion remain cool. To illustrate this, suppose it to be required to blow a bulb upon one side of a straight glass tube. By directing a sharp pointed flame against the side of the tube at the proper point, a well defineddisk of redness will be produced. The borders of the spot will show but little shading out of color, and the rod may be held in the fingers at only a very short distance from the heated disk. The spot thus heated has become plastic ; and if one end of the tube be now closed with the finger and the other placed in the mouth, and a strong blast of air forced into it, the internal pressure upon the yielding spot will immediately expand it into a bulb. If now it were required to produce a depression in the bulb itself, it would only be necessary to reheat the center of the bulb, and exhaust the air from the reheat the center of the bulb, and exhaust the air from the of foed—which shows, they argue, that it was intended he tube when the external pressure of the atmosphere would should be a great feeder. A cow has no power to import mo

will be read with interest by gourmands and Grahamites, as well as the intermediate grades of eaters who do not believe either in stuffing or starvation :

Now it is triumpnantly asserted, by those who do not know, that everything about man shows that he is cut out for a large feeder. Especially they insist upon the fact that his teeth and digestive apparatus show that he combines the capacities of the three classes of animals—the fruit, grass, and flesh eaters. He leads the animal world in his capacity for assimilating all kinds of food—which shows, they argue, that it was intended he should be a great feeder. A cow has to power to import the terms that the terms the terms the the advance of the terms the terms the terms the terms the should be a great feeder. A cow has to power to import the terms terms the terms the terms terms the terms terms terms to should be a great feeder. A cow has to power to import the terms terms terms terms the terms terms the terms terms terms terms terms terms terms terms the terms terms

We concede that the teeth of man indiate that the