CHENNAMINA TOPTHAND THE

The Messenger Almanac.

August.	
Last Quarter, Aug. 2nd 2h. 7m. morning. New Moon, "9th, 1h. 3m. First Quarter, "15th, 6h. 14m. afternoon. Full Moon, "2rd, 6h. 56m. Last Quarter, "31st, 5h. 1m. Day SUN. MOON. High Tide	
Day Rise. Sets. Rises. South. Sets. at 1	AA A BLAL
1 W. 4 51 7 21 10 17 4 52 11 51 12 Th. 4 52 7 20 10 47 5 38 A. 59 A 53 Fr. 4 53 7 19 11 28 6 29 2 11 4 Sa. 4 54 7 18 M 7 25 -3 22 5 SU. 4 55 7 16 0 20 8 26 4 32 6 M. 4 56 7 15 1 27 9 30 5 33 7 Tu. 4 57 7 14 2 44 10 33 6 22 8 W. 4 58 7 13 4 9 11 35 7 1 9 Th. 5 0 7 11 5 33 A. 32 7 31 10 Fr. 5 1 7 10 6 55 1 25 7 7 55 11 Sa. 5 2 7 8 8 16 2 16 8 16 12 SU. 5 3 7 6 9 34 3 6 8 38 11 13 M. 5 4 7 5 10 50 3 35 9 0 11 14 17 1 5 5 7 4 A. 5 4 45 9 25 1 15 W. 5 6 7 2 1 19 5 38 9 57 16 Th. 5 8 7 1 2 27 6 31 10 35 17 Fr. 5 9 6 59 3 31 7 25 11 19 18 Sa. 5 10 6 57 4 24 8 18 M 19 US. 5 11 6 56 5 6 9 10 0 12 20 M. 5 12 6 54 5 43 10 0 1 14 21 Tu. 5 13 6 53 6 10 10 45 2 17 22 W. 5 15 6 51 6 51 M 4 24 24 Fr. 5 17 6 48 7 8 0 10 5 29 25 Sa. 5 18 6 46 7 24 0 50 6 32 26 SU. 5 19 6 44 7 40 1 29 7 34 27 M. 5 20 6 42 8 0 2	1 41 1 17 1 2 1 57 3 12 4 38 5 58 7 1 7 51 8 38 9 23 0 8 0 49 1 28 M 0 10 0 56 1 54 3 13 4 46 6 56 7 37

THE TIDES.—The column of the Moon's Southing gives the time of high water at

Parrsboro, Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro.

High water at Pictou and Cape Tormentine, 2 hours and 11 minutes LATER than at Halifax. At Annapolis, St. John, N.B., and Portland Maine, 3 hours and 25 minutes LATER, and at St. John's, Newfoundland, 20 minutes EARLIER, than at Halifax. At Charlottetown, 2 hours 56 minutes LATER. A Westport, 2 hours 54 minutes LATER. A Yarmouth, 2 hours 20 minutes

FOR THE LENGTH OF THE DAY.—Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising. FOR THE LENGTH OF THE NIGHT.—Sub-tract the time of the sun's setting, from 12 hours and to the remainder add the time of rising next morning.

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THE HOUSEHOLD.

OATMEAL is as desirable for the student as for the laborer, and for the delicate lady as her hard-working sister; indeed, all classes would be greatly benefitted by its use, and dyspepsia, with all its manifold annoyances, can be kept at a distance. Oatmeal is more substantial food, it is said, than veal, pork or lamb, giving as much or more mental vigor, while its great desideratum consists in one's not becoming weary of it, for it is as welcome for breakfast or tea as is wheat or Graham bread. It can be eaten with syrup and butter as hasty pudding, or with cream and sugar like rice. It is especially good for young mothers, upon whose nervous forces too great a demand has been made, and they loose the equilibrium of the system and become depressed and disspirited. Oatmeal requires to be cooked slowly, and the water should be boiling hot when it is stirred in.

HOW TO COOK CORNED BEEF.—Don't boil it, for corned beef should never be boiled. It should only simmer, being placed on a part of the range or stove where this process may go on uninterruptedly from four to six hours, according to the size of the piece. If it is to be served, let the meat remain in the liquor until cold. Though meat can be made tender by letting it remain in the liquor until the next day, and bringing

dish, and pour on boiling water; cover | midwinter night, as the tall chimneys the eater for "hard" or "soft." The effect is quite different from that proto any other way of cooking by means it will hardly be likely to return to the old way.

egg sufficiently large to admit the finger. Insert the finger and let it remain seval hours and a cure is effected.

A good whitewash for walls is made by adding to fresh slacked lime and water, a solution of starch, a little salt and a few drops of dissolved indigo or

VARIETIES.

A Pennsylvania Dutchman, who married his second wife soon after the funeral of the first, was visited with a two hour's serenade in token of disapproval. He expostulated pathetically thus: "I say, boys, you ought to be ashamed of yourselfs to be making all dis noise ven dar vas a funeral here so soon."

A couple applied to a clergyman in Quincy, Ill., to be married, got him to take \$3 out of a counterfeit \$20 bill for his fee, and then departed, and some of the household who watched them were astonished to see the bride remove her her dress in an alley and come forth a

An indulgent father urged an indoduce costiveness (which is the case with lent son to rise. "Remember," said he, "that the early bird catches the worm" "What do I care for worms?" growled the youth; "mother won't let me go fishin'."

> A corps of soldiers out West go by the euphonious title of the Pippin Guards. It would not be in bad taste to call the company an apple-core.

> Why do not printers succeed to the same extent as brewers? Because printers work for the head and brewers for the stomach; and where twenty men have stomachs, but one has brains.-Printers' Register.

> SAVING TO GIVE. - Frugality is good, if liberality be joined with it. The first is leaving off superfluous expenses; the last is bestowing them to the benefit of others that need. The first without the last begets covetousness; the last without the first begets prodigality.

An Illinois sensationalist preached on "the funeral of Judas Iscariot." Handbills were placed 'round town on Saturday. A jovial brother appended to one of the handbills: " Relatives and friends of the deceased are cordially invited to be present." The house was

is black, the letters are white, and a skeleton heads each of its departments. lightest woody products.

SCIENCE.

THE HISTORY OF CAST STEEL presents a curious instance of a manufacturing secret stealthily obtained under the cloak of an appeal to philanthropy. The main distinction between iron and steel, as everybody knows, is that the latter contains carbon. The one is converted into the other by being heated for a considerable time in contact with powdered charcoal in an iron box. Now steel thus made is unequal. The middle of a bar is more carbonized than the ends, and the surface more than the centre. It is therefore, unreliable. Uniform work cannot be made out of it. For many purposes it will answer, but where accuracy is required it fails. Nevertheless, before the invention of cast steel there was nothing better.

In 1760 there lived at Attercliffe, near Sheffield, a watch-maker named Huntsman. He became dissatisfied with the watch springs in use, and set himself to the task of making them homogeneous.

"If," thought he, "I can melt a piece of steel and cast it into an ingot, its composition should be the same through-

He succeeded. His steel became famous. Huntsman's ingots for fine work were in universal demand. He did not call them cast steel. That was his secret. About 1770 a large manufactory of this peculiar steel was established at Attercliffe. The process was wrapped in secrecy by every means it to a boiling point just before serving. within reach—true and faithful men hired, the work divided and subdivided, The best way to boil eggs is not to large wages paid, and stringent oaths boil them at all. Put them in a tin administered. It did not answer. One the dish tight, and set back where the of the Attercliffe Steel Works belched water will merely keep hot; let it stand forth their smoke a traveller knocked at from fifteen minutes, according to the the gate. It was bitterly cold; the size of the eggs, or to the preference of snow fell fast, and the wind howled across the moor. The stranger, apparently a ploughman or agricultural duced by boiling, both the flavor and laborer seeking shelter from the storm, the texture of the egg being so superior awakened no suspicion. Scanning the wayfarer closely, and moved by motives of hot water, that those who have tried of humanity, the foreman granted his request and let him in.

Feigning to be worn out with cold and fatigue, the poor fellow sank upon To cure a felon, break a hole in an the floor, and soon appeared to be asleep. That, however, was far from his intention. He closed his eyes apparently only. He saw workmen cut bars of steel into bits, place them in crucibles, and thrust the crucibles into a furnace. The fire was urged to its extreme power, until the steel was melted. Clothed in wet rags, to protect themselves from the heat, the workmen drew out the glowing crucibles, and poured their contents into a mould. Mr. Huntsman's factory had nothing more to disclose. The secret of making cast steel had been found.

> CLOUDS.—Nothing in nature is so immaterial and delicately changing as the clouds. It is worth while to spend a day in observation, to note what exhaustless possibilities of change lie in a few hours' time. One of the commonest shows of cloud-evolution, and one which seems to follow a certain law, begins with a multitude of soft, globular figures that may cover the entire sky; these dissolve into a host of finely mottled images like fish-scales, they marshal themselves into rank like waves of the sea, emerging at last into a thin, delicate fabric like crumpled muslin.

It is probable that a "postal-card ink" may come into general use. A solution of nitrate or chloride of cobalt, or chloride of copper, mixed with a little gum or sugar, makes a good invisible ink. Warming changes it to a brown colour, when the writing can be read like any other. By this the usefulness of the postal card would be much increased, its messages having the privacy of a sealed letter.

No mere culture is complete that does not include the determination which gives strength to character. A prize was once offered in a large college for the best answer to the question, "What is the secret of success?" The student who bore of the palm merely wrote one word, " Determination." This was the whole thing in a nutshell. The lack of determination will as surely lead to failure as determination will ensure success.

GRAVITY OF WOOD .- The woods which are heavier than water are Dutch box, Indian cedar, ebony, lignum-vitæ, mahogany, heart of oak, pomegranate, vine. Lignum-vitæ is one third heavier, pomegranate rather more. On the The new Paris paper, the Other World other hand, cork, having a specific gravity of .24, and poplar, -383, are the

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save him scores of times its cost in doctor's bills; we carry contentment and gladness into the home of the afflicted, and consequently are remembered by millions of grateful souls.

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