The Messenger Almanac.

DECEMBER.								
First Quarter, Dec. 1st, 0h. 23m. A. Full Moon, "9th, 3h. 35m. A.								
First Quarter, Dec. 1st, Oh. 23m. A. Full Moon, "9th, 3h. 35m. A. Last Quarter, "16th, 10h. 48m. A. New Moon, "23rd, 5h. 10m. A. First Quarter, "31st, 9h. 43m. M. Day Sun. Moon. High Tide								
Day Rise. Sets. Rises. South. Sets. at Halifax								
1 SU. 7 22 4 17 0 23 6 6 11 49 M. 2 M. 7 23 4 16 0 41 6 46 M. 0 50 3 Tu 7 24 4 16 1 1 7 28 0 51 1 44 4 W. 7 25 4 16 1 20 8 7 1 55 2 2 47 5 Th. 7 26 4 16 1 41 8 49 2 54 3 55 6 Fr. 7 27 4 15 2 8 9 35 3 57 4 54 7 Sa. 7 28 4 15 2 39 10 23 5 2 5 46 8 SU. 7 29 4 15 3 21 11 15 6 7 6 30 9 M. 7 30 4 15 4 11 M 7 9 7 11 10 Tu. 7 31 4 15 5 15 0 9 8 7 7 50 11 W. 7 32 4 45 6 16 1 4 8 53 8 27 12 Th. 7 33 4 15 7 28 1 57 9 38 9 5 13 Fr. 7 34 4 15 8 42 2 51 10 14 9 44 14 Sa. 7 34 4 15 9 54 3 42 10 42 10 25 15 SU. 7 35 4 16 11 2 4 31 11 8 11 6 16 M. 7 36 4 16 M 5 19 11 36 11 55 17 Tu. 7 37 4 16 0 21 6 7 11 53 A 45 18 W. 7 37 4 16 0 21 6 7 11 53 A 45 18 W. 7 37 4 16 1 35 6 55 A 15 1 42 19 Th. 7 38 4 17 2 54 7 48 0 43 2 46 20 Fr. 7 38 4 17 2 54 7 7 48 0 43 2 46 21 Sa. 7 39 4 18 5 30 9 42 1 54 5 6 22 SU. 7 39 4 18 6 40 10 43 2 46 6 11 23 M. 7 40 4 19 7 42 11 45 3 48 7 8 24 Tu. 7 40 4 19 8 33 A 45 4 57 8 1 25 W. 7 7 41 4 20 9 11 1 40 6 9 8 47 26 Th. 7 41 4 21 9 42 2 31 7 20 9 32 27 Fr. 7 41 4 21 10 6 3 17 8 28 10 14 28 Sa 7 7 49 49 49 40 60 60 60 60 60 60 60								
29 SU. 7 42 4 23 10 44 4 41 10 38 11 31 30 M 7 42 4 24 11 3 5 21 11 39 M 31 Tu. 7 42 4 25 11 21 6 1 M 0 10								

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. 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 rom the sum subtract the time of rising.

FOR THE LENGTH OF THE NIGHT.-Subtract 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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And all diseases that lead to it; such as COUGHS, NEGLECTED COLDS, BRONCHITIS, PAIN IN THE CHEST, AND ALL DISEASES OF THE LUNGS,

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April 22.

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SCIENCE.

HOW MUCH IS ONE HORSE POWER. -This question is frequently asked What is understood by a horse power, and why came that way of reckoning to be adopted and brought into general use? Before the power of steam was generally known and applied to mechanical purposes, horses were though it were varnished and is much used to raise coal and other heavy easier and cheaper than scrubbing grease carefully compared the relative power two for painting. One advantage is found its average equal to raising 33,- in twenty-four hours, when put on the 000 pounds 1 foot per minute, or what is | first time, and in less time for successive or 100 pounds 330 feet during that ing work is done, and the next morning, space of time when attached to a lever | if the oil is pure, it will be dry enough or sweep of given length. This after- for use. Apply with a clean brush, or ward became the standard of measuring | even with a cloth. power or force applied to mechanical purposes, and which is still retained in common use.

MR. FOWLER CROSSING THE CHAN-NEL .- A curious project was recently carried out by Mr. Fowler, an American residing in Bordeaux. He crossed | firmly together, when it soon sets and the Channel on a podoscaph, 6 meters in length. Each tube of this podoscaph which is joined by rods, is 20 centimeters broad, and 30 centimeters high above the water. Leaving Boulogne at 1 past 4 in the morning, he arrived at Sandgate at 3:35 in the afternoon. He experienced contrary wind and a heavy swell during a great part of the in which are two tablespoons of butter journey. The pilots and fishermen thoroughly hot, but not scorching ; pour were surprised at seeing a man walking in the mixture, and with pepper and salt, At Charlottetown, 2 hours 56 minutes as it were, on the water. The bold as the mass is opened and stirred with Hymn and Tune Book navigator was met with loud acclama- the "scrambling," which should be tions. He arrived at Folkestane some- done quietly with the point of a knife what fatigued. During the crossing, which lasted 12 hours, the only refreshments he took was a little coffee and a small piece of bread. The state of the sea prevented his stopping. The feat was accomplished to the satisfaction of everybody, and is a striking proof of energy and boldness. Mr. Fowler is Chevalier of the Legion of Honor, and an equal amount of flour and a small owner of the yacht Peau-Rouge, which has gained several prizes in England and France. He was accompanied by the Petrel, belonging to an English

> LAMPBLACK .- One of the largest establishments for the manufacture of lampblack is at Petrolia, Pa. The method of production is remarkable. The flames of several thousands of gas jets are made to impinge against sheets of slate, on which the smoke or fine carbon is deposited, just as a piece of glass is smoked when held over a candle flame. When a sufficient deposit of the smoke has formed on the slates, it is scraped off and sent to market.

East Liverpool. Ohio, is warmed and lighted by its natural gas wells, one of which has been running for 20 years and sends out as strong a stream as ever. The gas gives out flames that rival the electric light in brilliancy, and it costs so little that the lamps in the city streets are kept burning day and night. It is used in private houses and factories alike, and cooks a steak or

Among the novelties of the Paris Exhibition is a drill which bores square holes-an invention of a Londoner.

VARIETIES.

A little Cincinnati girl, when asked what God had made her for, replied, Many an older person of her sex has, to all appearances, pretty much the same conception of heaven's designs.

Jerrold once went to a party at which Mr. Pepper had assembled his friends and said to his host on entering the room : "Mr. Pepper how glad you must be to see your friends mustered.'

the good peaches on the top of the measure and the little ones below?" " Same reason, sah, dat makes de front of your house all marble, and de back gate chiefly slop bar'l ash."

An old Highland clergyman, who had received several calls, asked his servant where he should go. The servant said: "Go where there is most sin, sir." The preacher concluded that was good advice, and went were there was most money.

preacher of a shrewd observer, " for an away from the hand. inattentive audience?" "Give them something to attend to," was the signiup to the rack if there is any hay in it." | they will not stick.

THE HOUSEHOLD.

An oiled floor for the kitchen is better than one finished in any other way. As to catching the dust, it does so no more than any other floor, and shows it no more than a dark painted floor. A good sweeping removes it, or even a good mopping, which brightens it as bodies. Mr. Moots, in his experiments, spots, or being torn up every year or of the different breeds of horse, and that you can use the floor without injury equivalent, to raise 330 pound 100 feet, coats. It can be put on after the even-

> To MEND CHINA .- Mix a little lime with the white of an egg; to use it make a sufficient quantity of the egg to mend one article at a time; shave off a quantity of the lime, and mix thoroughly; apply quickly to the edge and place becomes strong. Calcined plaster of Paris will answer in the place of lime.

BREADED EGGS .- Take one pint of bread crumbs and soak in one pint of milk. Beat eight eggs very light, and stir with the soaked crumbs, beating five minutes. Have ready a saucepan for three minutes, or until thoroughly hot. Serve on a hot platter, with squares of buttered toast.

POTATO CAKES.—Take potatoes mashed ones are best, but boiled ones can be mashed-immediately after dinner, before getting too cold; add about piece of butter or lard; rub thoroughly together, roll ont and cut as for biscuit -not too thick-and bake in a rather quick oven. When done to a light Agents for the Christian Messenger. brown, cut open, butter and eat warm. They are delicious.

Brown Betty.-Put a layer of sweetened apple sauce in a buttered a layer of cracker crumbs sprinkled Acadia Mines—I. D. Cook. with a little cinnamon, then layer of sauce, etc., making the last a layer of crumbs; bake in oven, and eat hot with cold, sweetened cream.

CORN STARCH PUFFS. - Four large eggs beaten separately, half cup butter, one cup powdered sugar, one cup corn starch, into which two heaping teaspoons baking powder has been mixed.

pound butter, six eggs, rose-water, salt, and sugar to taste. The Housekeeper.

A cheap pork barrel may be made Greenfield-Robert Harlow. heats a furnace with equal satisfaction. from a coal-oil barrel. Knock one head in, take a bunch of old hay, set fire to it, and throw into the barrel; let it burn until the staves commence to burn, put it out by turning the barrel upside down, scrape the coals off, and you have a good, sweet barrel.

If those interested in blacking stoves will try greasing them with fresh grease "To wear a red fedder in my hat." before blacking, they will find that it prevents them from rusting. Add pinch of brown sugar to blacking just before applying. This causes it to stick, and it polishes much easier, and with half the usual rubbing.

TO PRESERVE EGGS .- A pound of lime and one pint of salt to three gallons of water. Put all eggs not wanted for The argumentum ad-" Sam, you daily use into this brine, and they will are not honest. Why do you put all keep all the year round, and the whites froth almost as well as fresh eggs.

> Cabbage, when cooked by boiling, should be boiled in two waters. This destroys the "essential oil" which in unwholesome.

> Cayenne pepper, sprinkled around the shelves and other places where ants congregate, will drive them away.

Old boot-tops, cut into pieces the right size and lined, make excellent "What is the best remedy," asked a iron-holders. The leather keeps all heat

When about to poach eggs, grease ficant reply "Hungry sheep will look the vessel before putting in water, and

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Winter Arrangement, Commencing 7th Nov. 1878.

meacing ith Nov., 1979.							
Miles.	GOING W	EST.	Express daily.		Pass. and Freight,	Mon., Wed., & Fri.	Freight, Tues., Thu., and Saturday.
18 25 53	Windsor Wolfville Kentville, Wilmot, Annapolis,	do Arrive Leave Leave Arrive	9 10 10 11 11 12 2	40 36 56 10 27 00	A. 11 12 1 1 3 5	M. 30 49 20 40 35 40	P. M. 5 45 6 51 7 15
	St. John,	do	7	30		100	
Miles.	GOING EAST.		Pass, and Freight Mon, Wed. and Fri.		Fass, and Freight Tues., Thurs., & Sat.		Express daily.

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A. M. A.M. A. M. St. John, 8 00 P. M. Annapolis, 31 Wilmot, 3 51 59 Kentville, Arrive 5 05 Leave 5 15 66 Wolfville. 84 Windsor,

Express Trains every Monday, Wednesday

and Saturday, connect at Annapolis with Steamer for St. John. Stoamer " Scud " leaves St. John every

Monday, Wednesday and Saturday, at 8 a.m., for Annapolis. Nov. 13.



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At 8.50 a. m., and 4.40 p. m., for Pictou. WILL ARRIVE :-At 10.40 a. m., (Express) from Riviere

du Loup. At 8 p. m., (Express) from St. John. At 9.15 a. m., (Accomodation) from At 3 p. m., (Express) from Pictou.

1878 -- Summer Arrangement -- 1878

TRAINS LEAVE HALIFAX 7.30 a. m.—(Express daily) for Windsor and Annapolis.

8.00 a. m.—(Passengers and Freight) Mondays, Wednesdays and Fridays for Windsor and Annapolis.

3.10 p. m.—Accommodation for Windsor daily, and for Kentville, Tuesdays, Thursdays & Saturdays.

WILL ARRIVE: 10.10 a.m.-Accommodation from Windsor daily: and from Kentville Mondays, Wednesdays and Fridays.

5.10 p. m.—(Passengers and Freight), Tuesdays, Thursdays & Satur-days from Annapolis and Windsor.

8.30 p. m.-(Express daily) from Annapolis and Windsor.

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