an.' boiled with skimmed milk into a thin paste, and entirely devoid of moisture, it is never actually so, as after cooling is mixed with genuine cream in various may be proved by the simple experiment of placing a properties. The fourth may be detected by adding to known preject of any substance begins an adjustic for The fraud may be detected by adding to proportions. the cream a solution of iodnie in alcohol. or by adding water in the open air for some time, and noting its ina little nitric acid to the milk, and then a few drops of a crease of weight. For this purpose, various substances solution of iodule of potassium. Either of these tests communicates a blue colour to cream which contains 1,000 grains of which, of a clayey texture, was found arrow-root, nee-powder, flour, or any other substance by Schulber, during a night of twelve hours, to have of which starch is a constituent.

MUSHNOOMS .- A great number of fungi of a poisonous nature, bear a near resemblance to the mild eatable mushroom, so that even the best judges of them are hable to occasional deception. The following descrip- jair, the more moisture it will retain. tion of the true nushroom may be useful to those who ing in an atmosphere of 98° to 100° Fah., will observe intend to gather or to purchase this vegetable. The nothing but air issuing from the mouth and nostrils; intend to gather or to purchase this vegetable. gills or under part of the cap are loose, of a pinky-red, changing to a liver-colour; situated close to the stem, but not united to it; very thick set, irregularly disposed, immediately visible, which is deposited in the form of some forked next the stein, some next the edge of the dew; as, for instance, when one breathes against a pane cap, and some at both ends, in which ease the interme- jor glass in a frosty day. Here, then, is the simple il-diate smaller gills are generally excluded. The cap or | lustration of the falling of the dew; the air holding vapilcus is externally white, changing to brown when old, pour in invisible suspension, coming in contact with suband becoming scurty; it is regularly convex, fleshy, stances colder than itself, the vapour is condensed, and flatter when old, from two to four inches, but sometimes even nine inches in diameter; it liquifies as it decays; the flesh is white. The stem is solid, white, cylindrical, cription have a tendency to become colder than the air from two to three inches high, half an inch in diameter. by which they are surrounded? and why some sub-The *curtain* or membrane which extends from the stem stances have this tendency more than others? to the edge of the cap, is white and delicate. the mushroom first makes its appearance, it is smooth which regulate the distribution of heat, viz.: radiation. and almost globular, and in this state it is called a button. This species is esteemed the best and most savoury, and is much in request for the table. It is caten fresh, either stewed or broiled, or preserved as a pickle, or in powder: it also furnishes the sauce called which it gives out being greater than that which surketchup. The field plants are better for eating than those raised in artificial beds, their flesh being more tender; but the cultivated mushrooms are better looking, may be more easily collected in the proper state out any compensating return of heat, it is evident that for eating, and are firmer and better for pickling. The wild mushrooms are found in parks and other pastures where the turf has not been ploughed up for many years. The best time for gathering them is in August and September.

Those who are accustomed to mush ooms can distinguish the true from the false by the smell. The following test will be found useful to other persons : Sprinkle salt on the spongy part or gills of the mushrooms to be tried. If they turn yellow, they are poisonous; if they turn black, they are good. Allow the salt to act a little time before you decide as to the colour.

Characters of False Mushrooms or Poisonous Fungi.-They have a warty cap, or else fragments of membrane adhering to the upper surface; they are heavy, they emerge from a vulra or bag; they grow in woods and shady places, or in tufts or clusters on the trunks or stumps of trees; they have an astringent styptic taste and a pungent and often nauseous odour ; they become blue after being cut; they are moist on the surface; they possess an orange or rose-red colour, they turn in the latter part of the day. In close, cloudy, dry yellow when salted. Mushrooms which possess any of weather, dew is never to be met with. these properties, are to be shunned as dangerous.

MAY DEW.-Most people are familiar with the appearance of the pearly dewdrops, as they hang upon the blades of grass or the leaves of trees, or stud like gems the prickly points of the brier or thorn, in the cheering light of the summer summise ; yet the means by which the moisture becomes thus deposited, while the surrounding atmosphere is clear and dry, (as far, at least. as the senses can judge,) is in general passed over without notice.

Although in dry summer weather the air may appear

known weight of any substance having an affinity for may be used, and among others, carefully dried earth, gained twenty-five grains : and the experiments of Sir II. Davy give similar results. This capacity of the air for retaining moisture seems to depend upon two conditions-1st, its weight, or density, as indicated by the thermometer-the greater the density, or heat, of the A person breathnothing but air issuing from the mouth and nostrils; but let a colder medium, or anything presenting a surface of lower temperature be introduced, and vapour is adheres to the condensing body in the form of water.

It may here be asked, why substances of a solid des-For an When explanation of this, we must refer to one of the laws All bodies, even the coldest, radiate, or throw out heat, in straight lines, and are radiated upon by all other bo-dies in their presence, and not in contact. When a substance is being cooled, it is so in consequence of the heat rounding substances are able to return to it, and vice versa when it is being heated. But, when a body is so situated as to permit of radiation going freely on withits temperature must be materially lowered. The surface of the earth heat radiates to the clouds, and the clouds radiate to the earth again-the intervening air allowing the radiant rays to pass freely to and fro without being sensibly heated in itself. But when the sky is clear and still, as in a star-light night, then the heat thrown out by the earth is dissipated through space, and substances at its surface become considerably colder than the air above them. In conformity with the above statement, dew is most abundant, 1st, when a clear night succeeds a still, warm, sun-shiney day, the atmosphere being then high in temperature, and loaded with moisture, in consequence of the previous day's evaportion, and radiation having free scope ; 2nd, after rain, partly as above, from the humidity of the air, and partly from the reduction of temperature occasioned by the increased evaporation at the earth's surface; and 3rd, when the density of the air is reduced as shown by the falling of the barometer, a circumstance often attended by a clear sky and frosty dew in the morning, and rain

It must be obvious, however, to the most casual observer, that different substances are differently affected in regard to dew; a phenomenon for the explanation of which we would require to go into the laws of heat to a much greater extent than our space at present permits. Suffice it to say, that the researches and experiments of science have shewn that different substances possess the property of radiation in a very different degree. 'Good radiators,' says Turner, in his Elements of Chemistry, 'such as grass, wood, the leaves of plants, and filamen-tous substances in general, reduce their temperatures in favourable states of the weather, ten, twelve, or even