NDED 1866

up in passion, kicks thes, gr ans his property it this way, then that, presently hoists it into s tearing away in an ction; comes to a weed; him to go around it, he and he does climb it thless property to the up there he finds that place; takes a cursory nery, and either climbs down, and starts off ual in a new direction. our he fetches up within place he started from den down. He meets ts him about nothing, f in a different direction find something that is afford entertainment

ime valueless enough to to own it. the above passage, in humorous manner, thus parent waste of energy individual ant. But if individual to the colony y of these insects has r mankind. We find vision of labor, and the adopted this principle, he basic factors in the nan civilization, while still his own butcher, and jack-of-all-trades. d that the ants are the insects in the world toey owe this dominance he organization of their

the fact that each not only for its own ut for the general good ony. Here we have a as yet been only partly nd. If this lesson had learned, we should not ernational wars, but no ife between those who ads and those who work such as is the curse of , but each would be little bit for the general nan race.

e value of co-operation ne wolves, fierce and ils though they are, united efforts of several ccomplish that which is single individual is well

ong of the wolf forward and back. the pack is the wolf of the wolf is the pack."

arasites among animals a very salutory lesson. anisms are degenerates nich they belong. They



Chipmunk. ed with seeds to be stored a time of need.

often nearly all, of their consequently have lost motion. Their nervous ular exhibit marked desince it is the nervous to do with all reception to do with all reception onse to stimuli, feeling evident that the psychic sites is much lower than animals in the class to g. As it is among aniong mea, the "sponge," ho is always depending e, leases his higher at-

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carrying large locals of mints and seeds in its cheek-pouches and storing them in chambers off its underground domocile. We see the Red Squirrel hoarding up nuts and seeds in holes in stubs and trees. The Red Squirrel, too, was the originator of the method of dehydration of fleshy or juice articles of food, and this species adopted the habit of hanging fleshy fungi in the forks of trees, where in fleshy fungi in the forks of trees, where in the wind and sun they dried without molding, long before the modern methods of dehydration came into vogue or before the long strings of pieces of apples were suspended from the beams of the old-fashioned kitchen. The ants also, and the bees of some species, developed the "community kitchen" long before such an institution was adopted by man, the workers storing up supplies of food for the future use of the colony.

The method of maceration of woodfibres in the manufacture of paper is of very recent origin with man, but is a very ancient process among some species of wasps. Such wasps as the White-faced Hornet and the Common Yellow-jacket, which build the large paper nests



Nest of the Common Yellow Jacket. The original paper makers.

that we find suspended from the branches of trees and shrubs were the original paper-makers. The paper of which these nests are constructed is made from weather-beaten wood, or from the hard fibres of dry plant stems, pieces of which the insects pull off with their mandibles and reduce to a pulp by mixing with saliva and by thorough mastication.
The layers of paper are built up by the worker applying a pellet of pulp to the edge of the sheet, pressing it firmly down with the front legs, walking backwards pressing out the pellet in the form of a string along the edge, then running forward and returning along the string of ward and returning along the string of pulp and drawing it through the mandibles. This latter process is repeated two or three times until the string is flattened ribbon which, on drying, becomes indistinguishable from the rest of the sheet. Not only do these insects thus build up thin sheets of paper, but they also construct combs, and pedicels connecting facture of papier mashe, which has in comparatively recent years become popular in the manufacture of pails, wash-tubs and other articles for domestic use.

Just as some wasps were the original paper-makers, so others were the first potters and masons. The Potter-wasp, which is not uncommon in some parts of Canada, makes little jugs of clay which Canada, makes little jugs of clay which she attaches to the stems and leaves of plants and in which she deposits her eggs, along with a supply of food for the larvae which hatch from these eggs. The Blue-black Mud-dauber and other mason-wasps build little "appartment houses" of clay for a similar purpose. Man has lately developed the method of collectorage for the conservation of

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