

FISH BEAR LIVING YOUNG

It is a good thing for our students to give a little serious attention now and then to natural history. We just read in the *The Pathfinder* quite an unusual article on a certain specie of fish, and believing that many of our young readers may not be averse to consulting their dictionaries we are passing the article to them. Here it is:

Many fishes give birth to living young. There are three general types of reproduction among fishes—oviparous, viviparous and ovoviviparous. Each of these types has many a minor characteristics in the fertilization, deposition and development of the eggs. The great majority of fishes are oviparous and lay their eggs in the water, where they are fertilized externally by the males. But some species, in fact some entire families, are viviparous and produce living young from within the body.

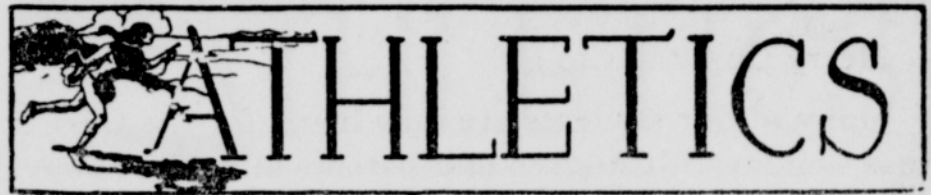
However, most so-called viviparous fishes are really ovoviviparous, namely living young are produced from eggs fertilized by copulation and retained within the body during their development, but without forming an attachment to the oviduct through which nourishment is derived from the mother. In this class are most rays, as well as numerous members of several other families.

The true viviparous fishes, such as the moonfishes, Mexican swordtails, surf fishes, guppies, and the common top minnows, not only give birth to living young hatched from eggs fertilized by copulation, but the young are nourished within the body through placental connection with the mother. Female swordtails have been known to produce as many as 100 young at a birth. The young are capable of taking care of themselves immediately and in most cases they must seek shelter from their cannibalistic mothers who try to devour them.

LOCAL

Robert Peratrovich, Jr., and his sister, Miss Helen, arrived in Chemawa last Monday to spend the holidays with friends at their old school. At present they are both living in Seattle where Robert is a senior in the state university and his sister is attending high school. They are both getting along well in every way.

Miss Edna Grove, supervisor of home economics in the Indian Service, arrived in Chemawa last Wednesday evening on official business. Her duties carry her over the greater part of the United States—we often wonder what her annual travel mileage would total? Miss Grove, when at Chemawa, is not far from her home in Corvallis, Oregon, where she is to pass her Christmas, returning to Chemawa later. Miss Grove is well known to the majority of us at the school and she is always a welcome visitor.

**BASKETBALL NOTES**

Last Monday evening thirty-two basketball candidates plunged into practice with but one object in mind and that was to make the team. While it is almost impossible for that many to make the first squad, yet we have never enjoyed so many real contenders as this year's turn-out presents. Before the suits were issued or anyone had a chance to show what he could do on the floor it was thought that our prospects were anything but bright. Yet in the first week of practice this squad has turned the dark clouds inside out. They have revealed the fact that we are not only blessed with three or four good men but that we have in the neighborhood of that many teams. The boys have competition and plenty of it. The fact that we will be represented in three classes this year instead of one probably has had something to do with this wealth of material. Many of those who were for sometime only considered "Would be's" are now very much in the running.

The two out standing centers are John Marsden and Isaac Curley, but they are being pressed so hard by Warren Wilder and Jim Scott that there is but little difference between them.

Last year our team could roll the ball through the net in practice in rapid fire order but for some reason or other they fell off in the games. The new squad is not hampered with that habit. Practice or game they are finding the basket remarkably well for this time of the season. A whole herd of shooters are among those present and a few of them are: Jesse Prettyman, Alonzo Hoover, Marcus Simmons, Leonard Vivette, Jesse Jabeth, Herman Goudy, Albert Miller and Clifford Case. These boys are waging the keenest struggle for permanent forward positions we have seen here in years. If grit, strength and determination holds out in this department as we expect it to in the center and guard positions ours is going to be a hard team to beat. Bill Jones, Joe Alexander, Julian Smith, Harry Archambeau and Benny Charley are all good-sized guards and have been making their presence felt. Not in a contact way but by close, fast checking and handling the ball. Should Isaac Curley and Leonard Vivette fail in their chosen positions they are apt to land among the latter group mentioned. Both are good shots and would be ideal guards. The dark horses are showing up. The next issue will probably have something about them.