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Ornamental gold fish (*Carassius carassius*) reared easily at home

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Abstract

In this busy life people like to get pet animal in one corner of house. Gold fish (*Carassius carassius*) is an attractive lower vertebrate to maintain in own house. In a small glass bowl you can see to swim a beautiful fish within a family. Fish food available in market and small pinch a day will fulfill Gold fish's day diet. Dissolved oxygen required to run it with the help of a small pump which generate bubbles with a porous rock to maintain glass bowl water's level of dissolved oxygen. Pebbles and small stone chips and plastic plants maintain a perfect ecosystem for rearing gold fish.

Keywords: *Carassius*, dissolved oxygen (D.O), rearing, ecosystem

Introduction

In a small glass bowl you can fill water to maintain gold fish as pet animal. Exposure of oxygen required for 6 hours a day and feeding with one pinch food (Small round food with dry tubifex) need to keep gold fish healthy. Fish with seven fins like pair of pectoral, pair of pelvic, dorsal, anal and caudal are very attractive to see in gold fish. Outer stream lined body covered with scale. Length of fish is 3-4 inches. At night gold fish lives at bottom and closed two eyes. Require to change water at least once in a week. Because food particles and excretion make water turbid. Fresh water requires to breath properly. Gradually gold fish increases in length and weight. Caudal fin increases rapidly and make the fish more attractive. Due to tropical climate temperature also increases and water becomes hotter so fresh water supply necessary to keep gold fish healthy.

Materials and Methods

First of all one need a glass bowl, one air pump, pebbles, stones, marbles, plastic plant and fresh water. Fill that glass bowl with 75% water and arrange to start a pump to get oxygen bubbles artificially to maintain proper D.O in that small bowl and put live Gold fish to rear in it. Food required to give in the morning (One pinch) and a hand net also need to clean this glass bowl at the week end. Cleanliness and transparency will help to make your pet animal more attractive. To maintain an aquarium in house will give you pleasure to see swimming of a living fish and you can spend time on it. Perfect pond ecosystem in a glass bowl will be a wonder in living room. Morning sunshine helps to see perfectly and enlightened room at night gives exposure to see surroundings of a pet animal.

- Food supply in the morning helps to maintain fish health.
- Exposure of Dissolved oxygen is important to keep fish healthy.
- Cleanliness of water requires.
- Handnet will help to keep fish in a separate container and clean bowl with fresh water helps to breath with gills.
- Pebbles also require to clean properly.
- Time to time observation will help to keep this More Lively.
- 6 hours exposure of dissolved oxygen in 24 hours is in break like 3+3 or 2+2+2.
- You may keep a pair of fishes too.
- Male and female fish can live together to swim in small glass bowl and share space and food.
- Dissolved oxygen level is a factor for water.



Fig 1: Above mentioned pictures will clear it's rearing at home



Fig 2: Couple of fish (Gold fish, Carp) you may keep to swim easily.

Results

Kids and adult get delighted to see a living fish in their home with a minimum expenditure. Dissolved oxygen level must be maintained properly. Food in the morning helps them to swim and grow proportionately. Cleaning per week will maintain proper ecosystem with pH balance. (7-8.5).

Discussion

In zoological garden (Kolkata, Darjeeling) you can see big aquarium for visitors. Fish rearing is interesting as human likes to see pet amongst family to get pleasure as hobby. In hospital, Airport (Indira Gandhi international, New Delhi), Restaurant, Research laboratories (CIFRI, Barrackpore) now in bank (SBI Golf-green) keeps aquarium for pleasure. Amusement parks keep aquarium with varieties fishes. But for small apartment fish rearing is interesting for family's well-being.

Reference

1. Johnson, Erik DR, Richard Hess. Fancy Goldfish: Complete Guide to Care and Collecting. Weatherhill, Boston, MA, 2001.
2. Boruchowitz, David. Aquarium Care of Goldfish. T.F.H Publication, Neptune City, NJ, 2008.

3. Halls, Steve. Your Healthy Garden Pond. Howell Book House, Foster City, CA, 2000.
4. Sweeney, Mary. The 101 Best Aquarium Plants. T.F.H, Neptune City, NJ, 2008.
5. Nico LG, Schofield PJ, Larson J, Makled TH, Fusaro A. *Carassius auratus* (Linnaeus, 1758): U.S. Geological Survey, Nonindigenous Aquatic Species Database, Gainesville, 2018. FL, <https://nas.er.usgs.gov/queries/FactSheet.aspx?specie sID=508>, Revision Date: 6/4/2018, Peer Review Date: 4/1/2016, Access Date: 8/7/2018
6. Street R. *Carassius auratus* (On-line), Animal Diversity Web. 2002. Accessed August 07, 2018 at http://animaldiversity.org/accounts/Carassius_auratus/
7. Rozin, Paul, Jean Mayer. Regulation of food intake the goldfish. *Am. J Physiol.* 20(5):1968-974
8. Ryback RS. A method to study short-term memory (STM) in the goldfish. *Pharmacol Biochem Behav.* 1976; 4(4):489-91.
9. Arthur Masloski. Goldfish: Myths Debunked. *Tropical Fish Hobbyist Magazine*, 2009 <http://www.tfhmagazine.com/details/articles/goldfish-myths-debunked.htm>
10. Carrie Arnold 3-Pound Goldfish Found-How'd It Get So Big?. *National Geographic Blog*, 2013.
11. Craig A Watson, Jeffrey E Hill, Deborah B. Poudier. Species Profile: Koi and Goldfish. SRAC Publication No. 7201, 2004.