# Snails and Sprigs Virtual Lab Investigation



Dipartimento di Scienze della Vita,
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This image of freshwater snails is in the public domain.

This investigation is based on an actual lab performed by high school biology students.

## **Materials**

2 Test tubes 1 Pipette

1 Test tube rack Water

2 Rubber stoppers 1 4-inch *Elodea* sprig

BTB solution 2 1/4-inch Hex nuts

3 Labels 1 Wax pencil

- 1. Label two test tubes A and D1.
- 2. Label the test tube rack with your group name.
- 3. Fill the test tubes 3/4 full of water.
- 4. Add five drops of BTB solution to each test tube.
- 5.Add a 1/4-inch hex head nut to test tube D1, place a stopper in the mouth of the test tube, and place it in the test tube rack.
- 6. Thread a 1/4-inch hex nut onto the stem of a 4-inch *Elodea* sprig.
- 7. Place the sprig into test tube A and securely plug the opening with a rubber stopper.
- 8. Place test tube A in the rack and put it in an area exposed to light.

# **Materials**

2 Test tubes 1 Pipette

1 Test tube rack Water

2 Rubber stoppers 1 Aquatic snail

BTB solution 2 1/4-inch hex head nuts

3 Labels 1 Wax pencil

#### Procedure

Label two test tubes B and D2.

- 2. Label the test tube rack with your group name.
- 3. Fill the test tubes 3/4 full of water.
- 4. Add five drops of BTB solution to each test tube.
- 5. Place a ¼-inch hex head nut in each test tube.
- 6. Insert a rubber stopper into the mouth of test tube D2 and place it in the test tube rack.
- 7. Place an aquatic snail in test tube B and securely plug the opening with a rubber stopper.
- 8. Place test tube B in the rack and put it in an area exposed to light.

## <u>Materials</u>

2 Test tubes 1 Pipette

1 Test tube rack Water

2 Rubber stoppers 1 4-inch *Elodea* sprig

BTB solution 2 1/4-inch Hex nuts

1 Aquatic snail 1 Wax pencil

3 Labels

#### <u>Procedure</u>

- 1. Label two test tubes C and D3.
- 2. Label the test tube rack with your group name.
- 3. Fill the test tubes 3/4 full of water.
- 4. Add five drops of BTB solution to each test tube.
- 5. Add a 1/4-inch hex head nut to the test tube D3, place a rubber stopper in the mouth of the test tube, and place it in the test tube rack.
- 6. Thread a 1/4-inch hex nut onto the stem of a 4-inch *Elodea* sprig and place it in test tube C.
- 7. Place an aquatic snail in test tube C and securely plug the opening with a rubber stopper.
- 8. Place test tube C in the rack and put it in an area exposed to light.

## **Materials**

2 Test tubes 1 Pipette

1 Test tube rack Water

2 Rubber stoppers 1 4-inch *Elodea* sprig

BTB solution 2 1/4-inch Hex nuts

3 Labels 1 Wax pencil

2 Pieces of aluminum foil

- 1. Label two test tubes *E* and *H1*.
- 2. Label the test tube rack with your group name.
- 3. Fill the test tubes 3/4 full of water.
- 4. Add five drops of BTB solution to each test tube.
- 5. Add a 1/4-inch hex head nut to the test tube H1, place a rubber stopper in the mouth of the test tube, and place it in the test tube rack.
- 6. Thread a 1/4-inch hex nut onto the stem of a 4-inch *Elodea* sprig.
- 7. Place the sprig into test tube E and securely plug the opening with a rubber stopper.
- 8. Wrap both test tubes with aluminum foil so they are not exposed to light.
- 9. Place your test tubes in the rack and put them in an area designated by your teacher.

# **Materials**

2 Test tubes 1 Pipette

1 Test tube rack Water

2 Rubber stoppers 1 Aquatic snail

BTB solution 2 1/4-inch Hex nuts

3 Labels 1 Wax pencil

2 Pieces of aluminum foil

- 1. Label two test tubes F and H2.
- 2. Label the test tube rack with your group name.
- 3. Fill the test tubes 3/4 full of water.
- 4. Add five drops of BTB solution to each test tube.
- 5. Add a 1/4-inch hex head nut to the test tube H2, place a rubber stopper in the mouth of the test tube, and place it in the test tube rack.
- 6. Place a snail and 1/4-inch hex head nut in test tube F and securely plug the opening with a rubber stopper.
- 7. Wrap both test tubes with aluminum foil so they are not exposed to light.
- 8. Place your test tubes in the rack and put them in an area designated by your teacher.

## **Materials**

2 Test tubes 1 Pipette

1 Test tube rack Water

2 Rubber stoppers 1 4-inch *Elodea* sprig

BTB solution 2 1/4-inch Hex nuts

1 Aquatic snail 1 Wax pencil

3 Labels 2 Pieces of Aluminum foil

- 1. Label two test tubes *G* and *H3*.
- 2. Label the test tube rack with your group name.
- 3. Fill the test tubes 3/4 full of water.
- 4. Add five drops of BTB solution to each test tube.
- 5. Add a 1/4-inch hex head nut to test tube H3, place a rubber stopper in the mouth of the test tube, and place it in the test tube rack.
- 6. Thread a 1/4-inch hex nut onto the stem of a 4-inch *Elodea* sprig.
- 7. Place the Elodea sprig and a snail in test tube G. Insert a rubber stopper into mouth of the test tube.
- 8. Wrap both test tubes with aluminum foil so they are not exposed to light.
- 9. Place your test tubes in the rack and put them in an area designated by your teacher.