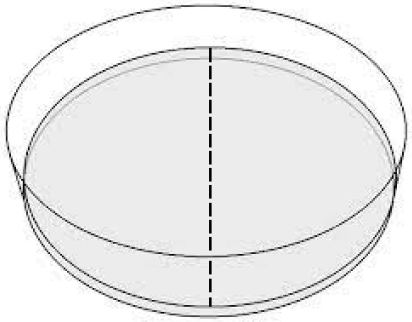
PROCEDURE – STEM WOODLICE EXPERIMENT

ENVIRONMENTAL FACTOR LIGHT INTENSITY (LIGHT/DARK EXPERIMENT)

Supplies:

- - 10 woodlice
- - Petri dish
- - Dark plastic bag
- - Stopwatch
- - Filtration paper
- - Pencil
- - Pasteur pipette
- - Measuring cup
- - Water
- - Spatula



Procedure:

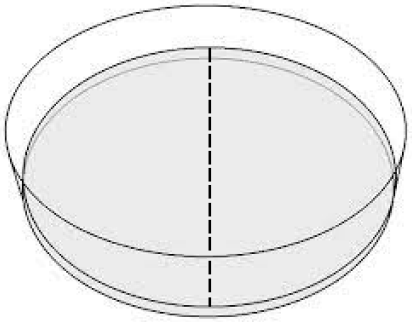
1. Place a filtration paper in the petri dish. On this you draw a dotted line in the middle that clearly shows the separation between the dark half and light half.
2. Lightly moisten the filtration paper with a pasteur pipette and water.
3. Carefully place 10 woodlice in the petri dish with the spatula.
4. Now place the dark plastic bag on 1 half of the petri dish to make the dark half.
5. Let the woodlice acclimate for 1 minute to their new environment.
6. Now record the number of woodlice per side.
7. Do this again and again every 30 seconds for 5 minutes.
8. Carefully put the woodlice back away.
9. Do this measurement 2 more times with a new setup each time. In total, do this experiment 3 times.

PROCEDURE – STEM WOODLICE EXPERIMENT

ENVIRONMENTAL FACTOR HUMIDITY (DRY/HUMID EXPERIMENT)

Supplies:

- 10 woodlice
- Petri dish
- Scissors
- Stopwatch
- Filtration paper
- Pencil
- Pasteur pipette
- Measuring cup
- Water
- Spatula



Procedure:

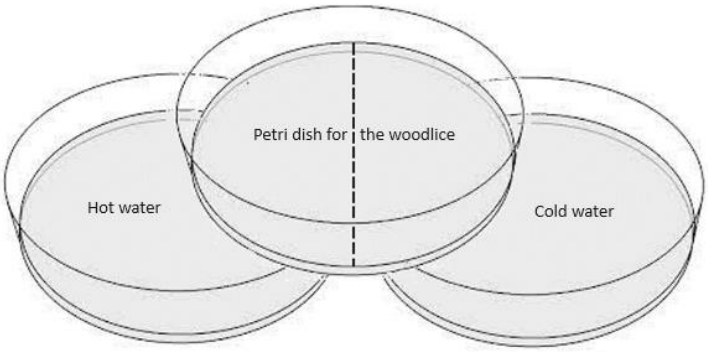
1. Cut the filtration paper into two halves and place them in the petri dish.
2. Moisten one half of the filtration paper with a pasteur pipette and water. One half of the petri dish is now covered with a moist filtration paper and the other half with a dry filtration paper.
3. Carefully place 10 woodlice in the petri dish with a spatula.
4. Let the woodlice acclimate to their new environment for 1 minute.
5. Now record the number of woodlice per side.
6. Do this again and again every 30 seconds for 5 minutes.
7. Carefully put the woodlice back away.
8. Do this measurement 2 more times with a new setup each time. In total, do this experiment 3 times.

PROCEDURE – STEM WOODLICE EXPERIMENT

ENVIRONMENTAL FACTOR TEMPERATURE (HOT/COLD EXPERIMENT)

Supplies:

- 10 woodlice
- 3 Petri dishes
- Ice cubes + Hot water
- Stopwatch
- Filtration paper
- Pencil
- Pasteur pipette
- Measuring cup
- Water
- Spatula



Procedure:

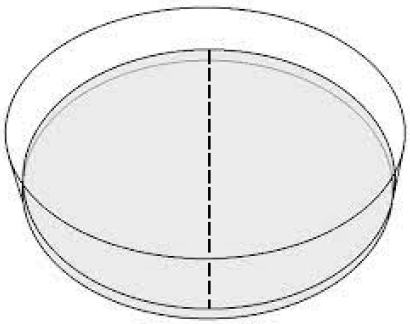
1. Put some ice cubes in a petri dish and hot water in a second petri dish. Put a petri dish on top that is half above the cold water and half above the hot water.
2. Place a filtration paper in the top petri dish. On this you draw a dotted line in the middle that clearly shows the separation between the hot and cold halves.
3. Lightly moisten the filtration paper with a pasteur pipette and water.
4. Carefully place 10 woodlice in the petri dish with the spatula.
5. Let the woodlice acclimate to their new environment for 1 minute.
6. After this, record the number of woodlice per side.
7. Do this again and again every 30 seconds for 5 minutes.
8. Carefully put the woodlice back away.
9. Do this measurement 2 more times with a new setup each time. In total, do this experiment 3 times.

PROCEDURE – STEM WOODLICE EXPERIMENT

ENVIRONMENTAL FACTOR SOIL (SAND/HUMMUS EXPERIMENT)

Supplies:

- 10 woodlice
- Petri dish
- Humus soil + sand
- Scissors
- Stopwatch
- Filtration paper
- Pencil
- Pasteur pipette
- Measuring cup
- Water
- Spatula



Procedure:

1. Place a filtration paper in the petri dish. On this, draw a dotted line in the middle that clearly shows the separation between the sand half and humus half.
2. Lightly moisten the filtration paper with a pasteur pipette and water.
3. Put a thin layer of sand on half of the filtration paper and a thin layer of humus on the other half.
4. Carefully place 10 woodlice in the petri dish with a spatula.
5. Let the woodlice acclimate for 1 minute to their new environment.
6. Now record the number of woodlice per side.
7. Do this again and again every 30 seconds for 5 minutes.
8. Carefully put the woodlice back away.
9. Do this measurement 2 more times with a new setup each time. In total, do this experiment 3 times.