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# **Materials**

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| Items Needed: | Purpose: |
| Fluorescent Light Source | Provides a source of energy for algal growth |
| Plastic Growth Container (10in by 4in by 4 in) | Provide a location in which to grow the Spirogyra. |
| Growth Supporting Medium | Allows for a neutral, sterile water medium to encourage algal growth. |
| Spirogyra | The species of green algae to be grown in order to create the paper. |
| Pipettes | Needed in adding air to the water. |
| A wire mesh | Used to Separate the Spirogyra From the growth medium. |

# **Procedure:**

1. Place the container below the light source.
2. Add � liter of the growth support medium to the container, allowing for the medium to cover the bottom of the container.
3. Add the Spirogyra to the container.
4. Let the Spirogyra grow until the surface of the medium is completely covered by the spirogyra.
5. Each day, aerate the medium with the pipettes
6. If needed, add additional growth medium to the container.
7. After the Spirogyra has covered the surface of the medium, filter the spirogyra through a fine mesh filter.
8. Place the filter, which is covered with the spirogyra, under the light.
9. Allow the spirogyra lose its water through evaporation aided by the heat of the light.
10. When the spirogyra is dry, remove the algae from the filter and record its similarities with paper