

Autumn Leaves Attachment

1. DATA SHEET – OBSERVATIONS

Before filter paper is placed in solvent	After filter paper is placed in solvent	After filter paper is placed in solvent and solvent has moved within 2 cm from top
Color – leaf rubbing line	Color – leaf rubbing line	Final observation- colors found on strip

Laboratory Rubric

Criteria	4 pts.	3 pts.	2 pts.	1 pt.
HYPOTHESIS	Hypothesis is clear, states the problem. Hypothesis is in statement or question form.	Hypothesis is clear, states the problem. Hypothesis is not in a statement or question form.	Hypothesis is not clear, and /or does not state the problem.	No hypothesis.
PROCEDURE	Has a team leader, materials manager, and secretary. <ul style="list-style-type: none"> • Follows directions of the lab. • Uses appropriate equipment • Accurately measures solids and/or liquids 	Has team leader, materials manager and secretary. Follows direction of lab.	Follows direction of lab.	Does not follow procedure.
ACTIVITY	All members in group are: <ul style="list-style-type: none"> • Participating in lab • following directions • contributing to data sheet 	Most members of group follow directions.	Group did not follow all directions. Lab completed but group did not work together or follow directions.	No directions or cooperation. One student worked the lab but continuously asked for help from teacher or other lab groups (peers).
CONCLUSION	Clear concise conclusion that addresses their hypothesis	Conclusion is not clear, but it addresses their hypothesis	Has a conclusion, but is does not address hypothesis.	No conclusion.

SCORE (TOTAL POINTS) _____

RANGE OF GRADE

A = 14 – 16
B = 11 – 13
C = 9 – 12
REDO < 9

2. **WRITTEN ASSIGNMENT** - Students write an essay describing “Changes in Leaves”. The essay should encompass the following information:
- a) What makes a leaf green?
 - b) What other pigments do leaves contain?
 - c) Why don't we see these pigments?
 - d) Why does the green color disappear in the autumn?