Scientific Inquiry

Comparing Chromatography in Tomato Plants

Group Name:	Date:
Congratulations! Your group has been selected for a NASA summer internship. Your group is assigned to work in the chemistry lab. The goal is the following: use chromatography to study different pigments in tomato plants. Complete the following steps to collect the data successfully.	
	ers begin scientific inquiry by asking testable questions. ollowing video about asking and writing testable questions:
https://www.youtube.com/wat	tch?time_continue=32&v=qsSFahitCug&feature=emb_logo
Step 2 : Write a testable questi Which tomato plant has the m	ion comparing pigments from two tomato leaf samples (e.g. ost flavonoids?)
Testable Question:	
section. Use the following we	ew the 3 different pigments discussed in the explore bsite: ence.ca/Resources/library/ArticleId/4661/plant-
Step 4: Create a hypothesis or compare the two tomato leaf s	a prediction of what you think will happen when you samples with chromatography.

Step 5: Make Observations

Place the paper strips here. Beside each strip, label the origin, chlorophyll <i>a</i> , chlorophyll
b, the xanthophylls and the solvent front for each chromatogram. Tape the strips to this
sheet once they are dry.
http://tomatosphere.letstalkscience.ca/Resources/library/ArticleId/5771/how-do-plant-pigments-vary-
between-leaves.aspx
Stop 6. Conclusion
Step 6: Conclusion
Indicate if your hypothesis was correct or not. Explain evidence to support why your hypothesis was correct or not. Use your results to write a conclusion to this experiment.