

Post-Lab Questions *(Answer on a separate sheet of paper)*

1. What colored pigments make up each black ink?
2. Why do different black inks separate into different pigment patterns?
3. Which inks appear to be made up of more than one pigment? Which inks appear to be a single pigment?
4. Knowing that water is a very polar solvent, what can you infer about the relative polarities of the various pigments in each ink?
5. *Optional:* If an ultraviolet (UV or “black”) light is available, shine it on each of the completed chromatograms in a darkened room to test for fluorescence of the dyes. What do you see? Can you make any additional inferences about the pigments in the various inks?