

Submerge a piece of dark paper in water and keep your hand on it. Allow the surface of the water to become still. Drop a single drop of clear fingernail polish on the surface of the water above the paper and allow it to spread out. Slowly lift the paper, and the fingernail polish will transfer to the paper as the paper emerges from the water. Set the paper down where it can dry. Observe the color patterns. Repeat this process with white paper. From what you have observed about light, try to explain what you see.

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Now look on the internet and summarize the explanation that you find. (iridescence)

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Now look on page 631 of the white physics text book in class.

Summarize the explanation \_\_\_\_\_

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Did the explanation in the book match the explanation on the internet? If they do not match, which do you suppose is correct?