



## Thin Films

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### **During the Experiment:**

What do you see when you add a few drops of nail polish into the water?

What do you predict will happen when the light hits the nail polish you added to the water?

After collecting the thin film using dark-colored construction paper, notice the rainbows you can see when holding the paper with the thin film up to the light. Why do you see multiple colors reflecting off of the paper's surface?

### **Reflection and Application:**

Was your prediction correct? Is this what you expected to see?

When rainbows form, what is the light source?

What is the water source in rainbows?

How are rainbows connected to what you observed while conducting this experiment?