

Name: _____

Date: _____

Explaining New Phenomena

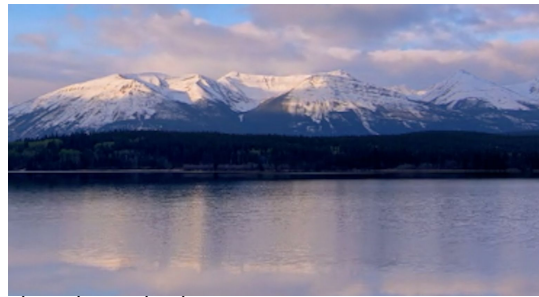
Option A: The same lake on a calm or windy day

On a day that is very calm, you can see a full and clear reflection of the mountains in the lake.



Alexander Kondratskiy

On a day with a lot of wind, you cannot see a very good reflection of the mountains in the lake.



Alexander Kondratskiy

Option B: A gym floor before and after waxing the floor

Before waxing a gym floor, workers sand the floor and you cannot see any reflection.



U.S. Air Force photo/Airman 1st Class Benjamin Wiseman

After adding a new wax coat, you can see the reflection of the windows and lights.



U.S. Air Force photo/Staff Sgt. Patrick Harrower

Select one of the two options and explain: **Why do we see different things when looking at the same object?**

In your explanation, include your thoughts about the following questions:

- What happens to light when it reaches the surface of the lake or the gym floor in each scenario?
- Why do we see or not see a clear reflection in each scenario?

[illegible]