The second claim that I recorded from the work other scientists did helped me the most in my thinking. If light can reflect, transmit, and be absorbed by the same object, I think that helps explain why the light meter readings didn $t$ add up to 10 candles in my investigation. I only measured the light that was reflected or transmitted. I think the missing light was light that was absorbed by each object.

I used my measurements from Table 2 and my thinking about absorption to describe how light interacted with each of my objects. Here s how I described the light meter readings:

$$
\text { 1-3 = a little } 4-6=\text { some } \quad 7-9=\text { a lot. }
$$

I recorded these results in Table 3.

Table 3. Describing my objects by how much light they absorb, transmit, and reflect.

| OBJECT | REFLECTS Light | TRANSMITS Light | ABSORBS Light |
| :--- | :---: | :---: | :---: |
| Clear Glass | Yes, a little | Yes, a lot | Yes, a little |
| Purple Glass | Yes, a little | Yes, some | Yes, a little |
| Silver Wrap | Yes, a lot | None | Yes, a little |
| Whitish Plastic | Yes, some | Yes, a little | Yes, a little |
| White Typing Paper | Yes, some | Yes, a little | Yes, a little |
| Black Felt | Yes, a little | None | Yes, a lot |
| Orange Cardboard | Yes, a little | Yes, a little | Yes, some |

## What I concluded:

$¥$ Light always interacts with a solid object in at least two ways.
These results tell me that light does not interact in the same way for each object. That made me wonder: why does light behave differently for different objects? I am also wondering how light can interact in different ways with the same object. What does that mean about what light is like? I will have to figure out how to investigate to answer these questions.

