Study Guide
Learning Target LS.2: I can predict how light interacts with different surfaces

Resources:

- *Transparent, Translucent, Opaque* Foldable
- *Convex and Concave Mirrors* Article
- T-chats and post-lab questions (tear these out of your journal and keep in the science section of your binder).

Big Ideas:

- *Energy can never be created or destroyed, it only changes forms (transforms to different types).*
- *Characteristics of surfaces and materials affects whether light can be reflected, transmitted or absorbed.*

(Basic-Level 2)
Define and provide examples of the following terms describing light and surfaces. You must get all of the items correct to earn a "2" score:

transmission of light (transmit)

absorption of light (absorb)

reflection of light (reflect)

transparent

translucent

opaque

convex mirror

concave mirror

Law of Conservation of Energy

(Proficient, Level 3)
Provide evidence of how light interacts with different surfaces using the vocabulary terms above. You must get all of the items correct in this section and the basic section to earn a "3" score.

Example of a question similar to what will be on the *Proficient* section of the test:

Is a concrete sidewalk a transparent, translucent or opaque surface? Provide evidence to support your answer by using the words that describe how light interacts with the sidewalk.

(Advanced, Level 3+)
There will be an optional advanced section on the quiz. You will have to apply properties of light and materials to something not explicitly discussed in the class room by answering an essay question.