Light Interactive Notebook Activities

a supplement for your light unit
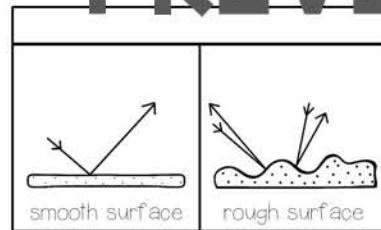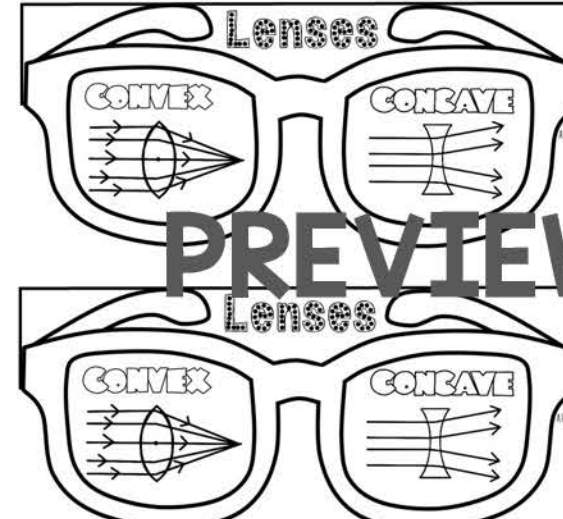
Ideas by Jivey

Cut around the entire foldable, then cut the flaps up to the top strip. Glue the back of the strip down into your notebook. Describe the difference in reflections under each flap.

smooth surface rough surface

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Cut around the outside of the Venn Diagram foldable. Fold it on the horizontal line, then cut on the vertical lines up until the fold. Tell about the properties of reflection and refraction under the flaps.

reflect properties of both refract

Lenses

CONVEX CONCAVE

Cut on the lines around the outside of the foldable, as well as the curved rim of the glasses. Glue under the rectangle only. The lenses of the glasses will become the flaps of your foldable. Under the flap, define each type of lens.

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Answer Keys

TRANSPARENT TRANSLUCENT OPAQUE

Cut around the entire foldable, then cut the flaps up to the top strip. Glue the back of the strip down into your notebook. Define each of the terms under the flap.

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(glue here)

← Cut along dotted lines ONLY →

glasses

clothes

jar

walls

(glue here)

Cut around the entire foldable, then cut only the dotted lines. Glue only the side that says glue here, then fold the flaps to make shutters. Describe each item under the flaps as transparent or opaque, and tell why it is important that they are that way.

What is a prism?

red
orange
yellow
green

Cut around the entire prism and spectrum. Glue the prism down only- the spectrum should make the flap. Color each of the lines in the spectrum based on the color it says. Under the flap, tell about what prisms do.

Prism Foldable
A prism is a triangular transparent glass or plastic object that separates white light that passes through it into the colors of the spectrum.

Materials Foldable
Transparent: allows light to pass through completely – no shadow is created and objects on the other side can be seen clearly.
Translucent: allows some light to pass through – casts a light shadow and objects on the other side seem fuzzy.
Opaque: no light passes through – casts a dark shadow and objects on the other side cannot be seen.

Objects Foldable
Glasses are transparent so you can see through them.
Clothes are opaque so your body is covered.
Jars are transparent so you can see what is inside of them.
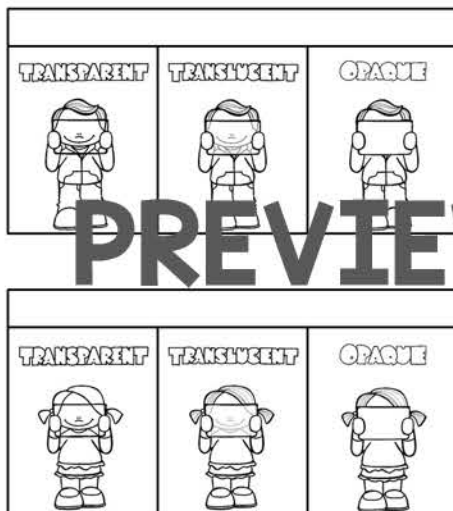Walls are opaque for protection.

Reflection Surfaces Foldable
Smooth: reflects a clear image
Rough: rays reflect in many directions and image is disrupted

Reflect/Refract Foldable
Reflect: light bounces from a surface back at its source
Refract: light is bent as it travels through a substance, such as water
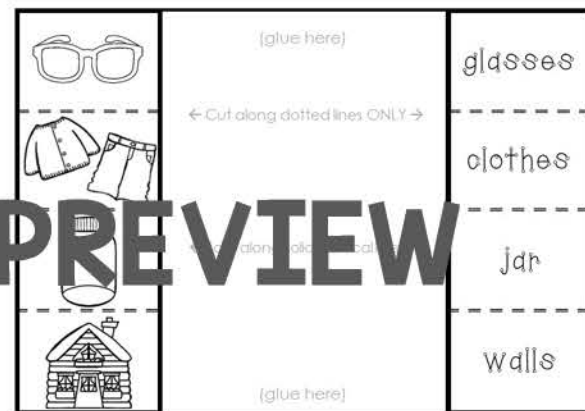Both: light waves are changed (bend) also talk about materials, like water, can reflect and refract

Lenses Foldable
Convex lenses bulge outward and cause light that passes through to meet at a point, making items appear larger
Concave lenses cave in at the center, causing light to spread out as it passes through and make items appear smaller