On the map below, label 5 mountain ranges and 5 rivers. Color the desert areas yellow.
My Rock

Fill in this worksheet on your rock. Draw a picture of it in the box.

Color: ________________
Texture: ________________
Weight: ________________ (heavy/light)
Luster: ________________
Hardness: ________________
Streak: ________________
Cleavage: ________________
My Rock

Fill in this worksheet on your rock. Draw a picture of it in the box.

Color: ________________
Texture: ________________
Weight: ________________ (heavy/light)
Luster: ________________
Hardness: ________________
Streak: ________________
Cleavage: ________________
My Rock

Fill in this worksheet on your rock. Draw a picture of it in the box.

Color: ________________
Texture: ________________
Weight: ________________ (heavy/light)
Luster: ________________
Hardness: ________________
Streak: ________________
Cleavage: ________________
Rock Types

Fill in this chart about different kinds of rocks.

<table>
<thead>
<tr>
<th>Types of Rock</th>
<th>How it looks/feels</th>
<th>How it’s used</th>
<th>Why it’s used for this</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chalk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Granite</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marble</td>
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<td></td>
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<tr>
<td>Pumice</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Sandstone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slate</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
Cut on the solid lines, fold on the dotted lines. Assemble the various mineral crystal shapes. This is a rhombic prism. Minerals with this shape include topaz, sulfur, and barite.
Cut on the solid lines, fold on the dotted lines. This is a tetragonal dipyramid. Zircon is an example of a mineral with this shape.
Mineral Crystals

Cut on the solid lines, fold on the dotted lines. This is a cube. Salt is a mineral with this shape.
Cut around the outside of the entire shape, keeping the tabs attached. Fold on the dotted lines and use the tabs to glue the shape together. This is a hexagonal quartz.
Cut around the outside of the first circle, as well as along the dotted lines to cut out the “cut out here” section. Cut around the outside of the second circle. Stack the first circle on the second circle and secure with a brad. Can you find today’s clouds on your cloud finder?
Stratocumulus
Dark, heavy low to middle clouds. Rain or snow likely.

Altostratus
Thick, gray, blanket-like clouds. Rain or snow likely.

Cirrus
High, wispy clouds. Can indicate change in weather.

Fluffy, lower clouds. Fair weather likely.

Cumulus

Cumulonimbus
Giant clouds that tower high. Storms are coming.

Altocumulus

Lesson 49
**Cloud and Weather Chart**

Use your cloud finder to predict the weather. Leave the last spot blank until later in the day.

<table>
<thead>
<tr>
<th>Date/Time</th>
<th>Cloud Type</th>
<th>AM Weather</th>
<th>Predicted Weather</th>
<th>Weather/Time</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>
Precipitation Map

Color the map using the maps linked in the online course to help. Be sure to include a key!

Global Wind Patterns

Draw on the global wind patterns from your reading today.

Use this chart for the next five days, following the instructions in the online course.

<table>
<thead>
<tr>
<th>Date</th>
<th>Temp</th>
<th>Conditions</th>
<th>Wind</th>
<th>Dew Point</th>
<th>Humidity</th>
<th>Barometric Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>
Choose the map that contains your state. Follow the directions in the online course to make a weather map. You’ll need four of the same map.

Adapted from: https://freevectormap.com/united-states/US-EPS-01-1002?ref=atr
Adapted from: https://freevectormaps.com/united-states-US-EPS-01-1002?ref=atr
Adapted from: https://freevectormaps.com/united-states/US-EPS-01-1002?ref=atr
Midwest

Adapted from: https://freevectormaps.com/united-states/US-EPS-01-1002?ref=atr
Choose the map that contains your state. Follow the directions in the online course to make a weather map. You’ll need four of the same map.

Adapted from: https://freevectormaps.com/united-states/US-EPS-01-1002?ref=atr
Adapted from: https://freevectormaps.com/united-states/US-EPS-01-1002?ref=atr
Adapted from: https://freevectormaps.com/united-states/US-EPS-01-1002?ref=atr
Northeast

Adapted from: https://freevectormaps.com/united-states/US-EPS-01-1002?ref=atr
Choose the map that contains your state. Follow the directions in the online course to make a weather map. You’ll need four of the same map.

Adapted from: https://freevectormaps.com/united-states/US-EPS-01-1002?ref=atr
Choose the map that contains your state. Follow the directions in the online course to make a weather map. You’ll need four of the same map.

Adapted from: https://freevectormaps.com/united-states/US-EPS-01-1002?ref=atr
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Adapted from: https://freevectormaps.com/united-states/US-EPS-01-1002?ref=atr
Adapted from: https://freevectormaps.com/united-states/US-EPS-01-1002?ref=atr
Draw the rivers on the map following the instructions in the online course.

Oceans Lapbook

Cut out as one piece. Fold the flaps so that the words are on the cover. Write the answers inside.
Ocean Lapbook

Cut the top rectangle out as one piece. Fold matchbook style. Write the answers inside.

What Causes Waves?
Cut out both circles. Label one circle “Atlantic Ocean” and one “Pacific Ocean.” Treat each circle like a pie graph and color in the approximate percentage of the world’s sea water that ocean represents using the online information. You can cut out the title banner to glue in your lapbook above or below the circles.

Percentage of the world’s sea water
Cut out as one piece. Fold in half and crease well. Cut on the two black lines separating the words to make three flaps. Simply fill in one thing in each from the website or search for some more info on your own.
The piece on the right gets stacked on top of the wider one of the same height. This is the Neritic piece. These other three get stacked on top of all the other pieces, fattest to skinniest.

Cut out each rectangle on the black lines and stack as described on the next page.
Oceanic

Cut out each rectangle on the black lines.

Euphotic

Stack with the others with the shortest in front. Then the three from the other page go in front. Make a cover out of sand colored paper (if possible). Cut it to look like the descending land in the diagram. Staple all together. Older students can write about each one. Use the Light Zones page. Younger students can color the levels darker and darker instead of writing on them. This piece goes with the “Zonation” page of the site.

Disphotic
Ocean Lapbook

Use the instructions online to complete this piece.

<table>
<thead>
<tr>
<th>Deepend Point (in thousand meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arctic</td>
</tr>
</tbody>
</table>

Oceans
How Deep is the Ocean?
Cut the rectangle above as one piece. Keep on the tabs. Cut along the dotted lines.

Fold the tabs back and glue them down. You will also put glue on the back of these tabs to attach it to the lapbook.

Cut out the skinny rectangles along the black lines.

Insert the “cold water” strip to the left so that it pulls down.

Insert the “water flows” strip to the right so that it pulls up.

In the blue sections you could use the info in the other animated diagram on the webpage to write “Organic...”

When you attach to the lapbook, only glue down the sides and middle.
Cut out as one piece and fold the side flaps into the middle so that the words and picture are on the outside. Write facts about kelp inside.

Are There Forests in the Ocean?
Find the big dipper in this picture. If you want to, take this page outside tonight and use it to try to find the Big Dipper in the sky.
Use these pages to make notes on your topic.

Topic: ____________________________________________

Resource 1: ______________________________________
  Info: ____________________________  Info: ____________________________
  Info: ____________________________  Info: ____________________________
  Info: ____________________________  Info: ____________________________

Resource 2: ______________________________________
  Info: ____________________________  Info: ____________________________
  Info: ____________________________  Info: ____________________________
  Info: ____________________________  Info: ____________________________

Resource 3: ______________________________________
  Info: ____________________________  Info: ____________________________
  Info: ____________________________  Info: ____________________________
  Info: ____________________________  Info: ____________________________

Resource 4: ______________________________________
  Info: ____________________________  Info: ____________________________
  Info: ____________________________  Info: ____________________________
  Info: ____________________________  Info: ____________________________