Part 1: Import the Schoolyard Map Project to Model My Watershed®

1. Open and log in to the Learn Portal (learn.concord.org).

2. Click on the link provided by your teacher for the schoolyard map of your school. Your schoolyard map will open in the Model My Watershed® app in a new tab.

3. Click on “Login” in the black bar above the map (upper right-hand corner) and below “or Login with” select the “Learn Portal” option. If a pop-up window appears asking to know your location, select “Allow.” **HINT!** A blue dot in the upper right-hand corner next to your username confirms you are logged in properly. If you do not see the blue dot, ask your teacher for help fixing the browser cookies settings.

4. Click “Details” to the right of your schoolyard map project name in the black menu bar, then click on “(Edit)” right above Site Storm Model.

5. Click the “Model” tab in the left panel, then select “Site Storm Model.”

6. In the upper left corner, click the down arrow to the right of “Untitled Project” and select “Rename.” Change the name to [Your Name] Schoolyard Map (Ex: Alexis Schoolyard Map) and click “Save.”

Your map project name will now appear in the upper left-hand corner of the black menu bar, and your schoolyard map is saved in your Model My Watershed® account. Close the Model My Watershed® tab and go to Lesson 8 in the Learn Portal.
Part 2: Identify the Current Conditions for Your Schoolyard

1. Click on “Start Here!” in the Model My Watershed® interactive to start the app. **HINT!** A blue dot in the upper right-hand corner next to your username confirms you are logged in properly.

2. Click “Projects” in the black menu bar above the map, and then click “Launch Project” in the box with your schoolyard map project.

3. Click “Analyze” in the black menu bar above the map. The model will analyze the area and show the current conditions data for your schoolyard.

4. Use the “Selected Area” measurement in the analyze panel to answer Question #1 in the Learn Portal (circled in yellow).

5. Click on the “Land” tab (circled in red) in the analyze panel to learn about the land covers on your school’s property. **HINT!** Drag the scroll bar down on the right side of the analyze panel to see a data table below the graph of the land cover and click on “Coverage” in the data table header to sort the land covers by size. Use this information to answer Question #2 in the Learn Portal.

6. Click on the “Soil” tab (analyze panel) to determine the main soil group on your school’s property to answer Question #3 in the Learn Portal.

Then, go to the next page in the Learn Portal.
Part 3: Modeling Changes to Your Schoolyard

1. Click on “Start Here!” in the Model My Watershed® interactive to start the app.

2. Click “Projects” in the black menu bar above the map, and then click “Launch Project” in the box with your schoolyard map project.

3. In the grey menu bar, move the precipitation slider to 8.0 cm. **HINT!** To adjust precipitation more easily, click the precipitation slider and use your arrow keys to move the slider. **HINT!** To set the units of measurement to the metric system, click on your username (top right black bar), select “My Account, and use the dropdown arrow under “Unit Scheme” to change the units.

4. In the “Layers” control box (bottom left corner of the map), click the furthest right icon and change the “Basemap” to the map layer that works best for viewing the features of your school’s property (e.g., Satellite or Satellite with Roads).

5. Click “Add changes to this area” in the bar above the map (right of the precipitation slider).

6. Click the teal-colored button to view the practices you could add to the scenario. Hold the cursor over each conservation practice to learn more about them.

7. Start by adding a Green Roof to the tops of some of the buildings at your school (flat or low slopes only). Select “Green Roof” and then click on one corner of your school’s roof on the map (**HINT!** Zoom in to make it easier to see the features of the roof and use the arrows on your keyboard to move the map around). Moving clockwise, click along the roof’s edges at each corner until you click on the first mark again to close the polygon and define where the Green Roof would be installed. The simulation will install the Green Roof, and the data in the model will update. Repeat this process until you have changed all of the flat roofs at your school to Green Roofs. **HINT!** If there are no flat roofs at your school, select a different conservation practice to install on your schoolyard.
8. When you are finished adding Green Roofs, click on the down arrow next to “New Scenario” in the grey menu bar, move the cursor down to the three dots to the right of “New Scenario,” click on the three dots, and select “Rename” to rename your project “Green Roofs.”

9. Now click on the down arrow next to the scenario you just named “Green Roofs,” and click the three dots to the right of “Green Roofs.” Select “Duplicate” in the dropdown menu and rename this scenario “My Best Schoolyard Plan.” Add more Conservation Practices to make your best schoolyard sustainability plan.

   To remove practices you added, click on a Conservation Practice added to the map and select “Remove modification.”

10. When you finish developing your best schoolyard sustainability plan, click on “Compare” above the panel on the left of the map.

11. Click on the data table icon in the top menu (on the right of the precipitation slider) to view a data table. Record the data and complete the questions in the Learn Portal.