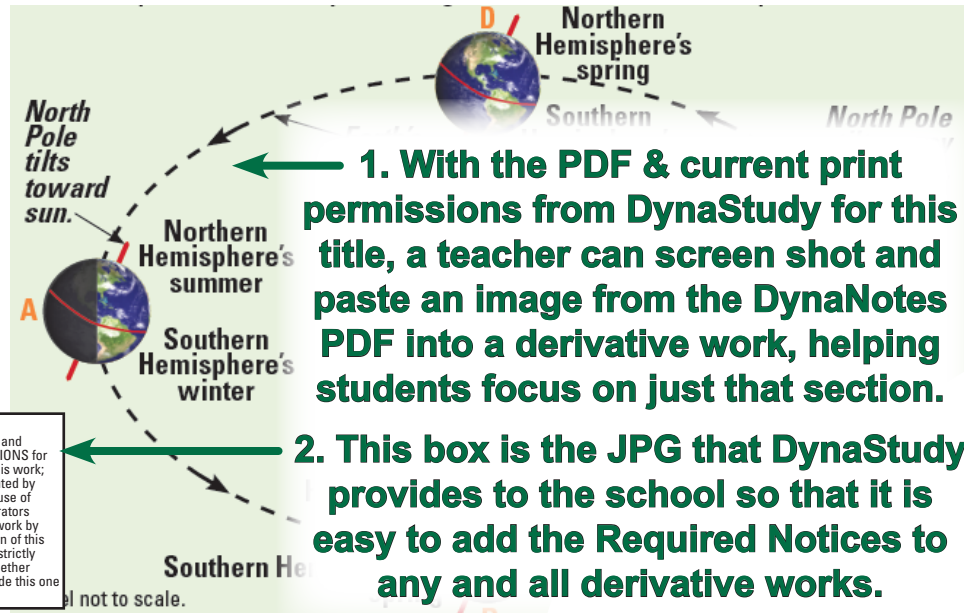


DynaNotes Grade 5 Science Streamlined Derivative Work Example:
 “Activity: Create and Manipulate a Single Season Model of Sun and Earth”

Follow the instructions to create and manipulate a seasonal model of the sun and Earth.

1. Review the diagram.

Notice Earth’s axis remains at the same angle in all seasons from your viewpoint. You will see this is not the case from the sun’s viewpoint.



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2. Choose a season: It is _____ in the _____ hemisphere.
 (season) (northern/southern)

3. Create a simple model using available supplies. It should include the sun, the Earth, Earth’s equator, and Earth’s imaginary axis. Identify the northern and southern hemispheres with different colors or by repeatedly writing “S” below the equator. *No moving parts are needed.*

4. Put your head near the sun and look at the Earth. Draw the appearance of the equator in the correct circle of the table (for the season you chose). Shade the southern hemisphere. *Note: It is easier to draw the equator if you draw the axis, too.*

5. What season comes next in the hemisphere you chose? _____ Adjust your model to represent that season and draw the appearance of the equator from the sun’s point of view in that circle of the table (and shade the southern hemisphere). Adjust your model and continue the process two more times to complete the table.

Northern Hemisphere	Southern Hemisphere	View of Earth’s Equator from Sun
winter	summer	
spring	fall	
summer	winter	
fall	spring	

6. Explain how different areas on Earth receive more or less sunlight during different seasons.