

## Focused Three Week Long Lesson Plan

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Used for the pilot implementation of the experimental educational unit, plan uses scaffolding, self-reflection, social learning, multiple learning pathways, and mastery learning techniques.

<b>Lesson Plan for Focused Implementation of Simulator Instructional Unit</b>		
<b>Weekly Learning Focus</b>	<b>Student Activities</b>	<b>Instructor Activities and Supportive Resources</b>
<p><b>Week 1: Simulator-assisted practice of 6 targeted standard imaging approaches in Dual View mode (both anatomical and ultrasound views in use).</b></p> <p><b>NOTE: Each set of daily activities may occur on any calendar day during Week 1 based on scheduling and availability</b></p>	<p><b>Day 1:</b> (Activity duration 2 hours = 1 hours on simulator, 1 hour on Blackboard and Web Quest Assignment; possible additional time as needed).</p> <ul style="list-style-type: none"> <li>• Use Simulator in Dual View mode to view and practice the targeted standard imaging planes of the heart.</li> <li>• Begin learner blog entries with self-reflection after Day 1 of Week 1’s learning activities (required).</li> <li>• Begin participation in Bb peer Discussion group.</li> <li>• Capture Dual View images for use in Web Quest Assignment and in learner portfolio.</li> <li>• As needed, view supportive Tegrity and PowerPoint Course Content in the Bb course as needed during and after each Simulator session.</li> </ul>	<p><b>Instructor:</b> facilitates all Day 1 activities in Week 1. Instructor discusses learner progress at end of all daily sessions with learner.</p> <p><b>Resources for Week 1:</b></p> <ul style="list-style-type: none"> <li>• Simulator in Dual View mode, 1 hour per student.</li> <li>• Simulator room workstation.</li> <li>• Lync setup from Simulator room workstation to Instructor’s workstation.</li> <li>• Blackboard (Bb) course resources:               <ol style="list-style-type: none"> <li>1. Learner-focused Blog and Discussion board (facilitated).</li> <li>2. Tegrity sessions available for review of simulator profile setup and operation.</li> <li>3. Course Content of PowerPoint presentations with embedded instructional videos on simulator use.</li> <li>4. Weekly activities for the Web Quest Assignment administered and managed through the Bb course.</li> <li>5. Image-based formative quizzes are hosted and administered in the Bb course.</li> </ol> </li> </ul>

	<p><b>Day 2:</b> (Activity duration 2 hours = 1 hours on simulator, 1 hour on Blackboard and Web Quest; possible additional time as needed).</p> <ul style="list-style-type: none"> <li>• Continue using Simulator in Dual View mode to master the targeted standard imaging planes of the heart.</li> <li>• Capture Dual View images for use in Web Quest Assignment and in learner portfolio.</li> <li>• Participate in Bb peer Discussion group.</li> <li>• Perform visually-based unit formative assessment quiz at end of Day 2.</li> <li>• Post Blog entry for Week 1, self –reflecting on the week’s activities. (This is the only other required self-reflection in Week 1 besides Day 1, although entries are encouraged at any time).</li> <li>• Submit Part I of the Web Quest Assignment in Blackboard.</li> <li>• Complete download of captured images for use in learner portfolio and Web Quest.</li> </ul>	<p><b>Instructor:</b> For Day 2 Week 1, instructor facilitates simulator activities for first 1/2hour, then checks in at end of 1-hour session, or as needed is response to Lync request for assistance.</p> <p>Instructor reviews learner Blog and Discussion board entries, reviews and provides feedback on Part II of the Web Quest Assignment.</p> <p>Instructor administers visually-based unit formative assessment test at end of Day 2 session, reviews and discusses results with learner.</p> <p>If needed and agreed upon with the learner, up to two additional 1-hour sessions may be added to ensure mastery of sub-unit topics.</p>
Weekly Learning Focus	Student Activities	Instructor Activities and Supportive Resources
<p><b>Week 2: Simulator-assisted practice of 6 targeted standard imaging planes in Ultrasound mode only.</b></p> <p><b>NOTE: Each set of daily activities may occur on any calendar day during Week 2 based on scheduling and availability</b></p>	<p><b>Day 1:</b> (Activity duration 2 hours = 1 hours on simulator, 1 hour on Blackboard and Web Quest Assignment; possible additional time as needed).</p> <ul style="list-style-type: none"> <li>• Use Simulator to master the targeted standard imaging planes of the heart in Ultrasound view mode.</li> <li>• Continue learner blog entries with self-reflection on Day 1 of Week 3’s learning activities (required).</li> <li>• Continue participation in Bb peer Discussion group.</li> </ul>	<p><b>Instructor:</b> facilitates all Day 1 activities in Week 2.</p> <p>Instructor discusses learner progress at end of all daily sessions with learner.</p> <p><b>Resources for Week 2:</b></p> <ul style="list-style-type: none"> <li>• Simulator in Ultrasound mode.</li> <li>• Simulator room workstation.</li> <li>• Lync setup from Simulator room workstation to Instructor’s workstation.</li> <li>• Blackboard (Bb) course resources:</li> </ul>

	<ul style="list-style-type: none"> <li>• Capture Ultrasound images for use in Web Quest Assignment and in learner portfolio.</li> <li>• View supportive Tegrity and PowerPoint Course Content in the Bb course as needed during and after each Day’s Simulator session.</li> </ul> <p>OPTIONAL: If learner self-assesses mastery of sub-unit, the formative assessment test for the unit may be taken and if passed with at least 90% correct, the learner may advance to the next sub-unit of instruction.</p>	<p>Same as Week 1 with additional Course Content of Tegrity sessions and PowerPoint presentations with embedded instructional videos on the use of the Simulator in Ultrasound mode.</p> <p>AS APPLICABLE: Instructor may discuss learner self-assessed mastery of sub-unit and administer and review summative test results with learner to jointly decide learner’s course of action.</p>
	<p><b>Day 2: :</b> (Activity duration 2 hours = 1 hours on simulator, 1 hour on Blackboard and Web Quest Assignment; possible additional time as needed).</p> <ul style="list-style-type: none"> <li>• Continue using Simulator in Ultrasound mode to master the targeted standard imaging planes of the heart.</li> <li>• Capture Ultrasound images for use in Web Quest Assignment and in learner portfolio.</li> <li>• Post self-reflective blog entry at end of Week 2 (optional).</li> <li>• Participate in Bb peer Discussion group.</li> <li>• Perform visually-based unit formative assessment quiz by end of Week 2.</li> <li>• Submit Part II of the Web Quest Assignment by end of Week 2.</li> <li>• Learner reviews progress and performance for self-reflective attainment of mastery. Discusses with Instructor, and has the option to continue the sub-unit for up to two more days.</li> </ul>	<p><b>Instructor:</b> initially facilitates simulator activities in Day 2 for the 1<sup>st</sup> half-hour, and then at end of session or as needed in response to Lync request for assistance.</p> <p>Instructor reviews individual Blog postings, moderates Discussion board postings, and ensures learners have made progress on Part II of the Web Quest Assignment.</p> <p>Instructor administers visually-based unit summative assessment test at end of Day 5 session, reviews and discusses results with learner.</p> <p>If needed and mutually agreed upon, up to two additional 1-hour sessions are added to ensure mastery of sub-unit topics.</p>

Weekly Learning Focus	Student Activities	Instructor Activities and Supportive Resources
<p><b>Week 3: Use of the simulator's Comparative feature to review and then assess the ability of the student to capture the 6 targeted standard imaging planes, versus the ideal standard approach portrayed by the simulator</b></p> <p><b>NOTE: Each set of daily activities may occur on any calendar day during Week 3 based on scheduling and availability</b></p>	<p><b>Day 1:</b> (Activity duration 2 hours = 1 hour on simulator, 1 hour on Blackboard and Web Quest Assignment; possible additional time as needed).</p> <ul style="list-style-type: none"> <li>• Use Simulator to master the targeted standard imaging planes of the heart in Comparative view mode.</li> <li>• Continue learner blog entries with self-reflection on Day 1 of Week 4's learning activities (required).</li> <li>• Continue participation in Bb peer Discussion group.</li> <li>• Capture Comparative view mode images for use in Web Quest Assignment and in learner portfolio.</li> <li>• View supportive Tegrity and PowerPoint Course Content in the Bb course as needed during and after each Day's Simulator session.</li> </ul> <p>OPTIONAL: If learner self-assesses mastery of sub-unit, the formative assessment test for the unit may be taken and if passed with at least 90% correct, the learner may advance to the next sub-unit of instruction.</p>	<p><b>Instructor:</b> facilitates all Day 1 activities in Week 3.</p> <p><b>Resources for Week 3:</b></p> <ul style="list-style-type: none"> <li>• Simulator in Comparative mode.</li> <li>• Simulator room workstation.</li> <li>• Lync setup from Simulator room workstation to Instructor's workstation.</li> <li>• Blackboard (Bb) course resources: Same as Weeks 1, 2 &amp; 3 with additional Course Content of Tegrity sessions and PowerPoint presentations with embedded instructional videos on the use of the Simulator in Comparative mode.</li> </ul> <p>Instructor discusses learner progress at end of daily session with learner.</p> <p>Instructor discusses and reviews learner's progress in Web Quest Assignment at end of Day.</p> <p>AS APPLICABLE: Instructor may discuss learner self-assessed mastery of sub-unit and administer and review summative test results with learner to jointly decide learner's course of action</p>
	<p><b>Day 2:</b> (Activity duration 2 hours = 1 hours on simulator, 1 hour on Blackboard and Web Quest Assignment; possible additional time as needed).</p>	<p><b>Instructor:</b> initially facilitates simulator activities in Day 2 for the 1<sup>st</sup> half-hour, and then checks in at the end of the session, or as needed in response to Lync request for assistance.</p>

	<ul style="list-style-type: none"> <li>• Continue using Simulator in Comparative mode to master the targeted standard imaging planes of the heart.</li> <li>• Capture Comparative images for use in Web Quest Assignment and in learner portfolio.</li> <li>• Post self-reflective blog entry at end of Day (optional).</li> <li>• Participate in Bb peer Discussion group.</li> <li>• Perform visually-based unit formative assessment quiz at end of Day 2.</li> <li>• End of Day 2 simulator session: the learner reviews progress and performance in daily formative quizzes for self-reflective attainment of mastery. Discusses with Instructor, and has the option to continue the sub-unit for up to two more days.</li> </ul>	<p>Instructor reviews individual Blog postings, moderates Discussion board postings, and ensures learners have made progress on Part III of the Web Quest Assignment.</p> <p>Instructor discusses learner progress at end of session with learner.</p> <p>If needed, and mutually agreed upon, up to two additional 1-hour sessions are added to ensure mastery of sub-unit topics.</p>