

BSC Diagnostic Radiography Lesson Plan

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| Lesson title | Introduction to BSC Diagnostic Radiography. |
| Session format | Digital lesson with group activity, interactive elements, and summary quiz. |
| Aim of the session | To introduce students to the BSC Diagnostic Radiography degree and career and for students to learn about different types of bone fractures. |
| Materials included in the Box | * 2 x X-ray Packs * Packets of Maltesers (amount depending on group size). * Packets of Polo Sweets (amount depending on group size). * 2 x sets of replica vertebrae bone. * 2 x sets of Leaded X-Ray Markers (Left and Right). * 2 x sets of Foreign body Markers (Red arrow). * Student Feedback Forms. |
| Handouts included | No paper handouts are required during this session. |

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| Activity | Instruction | Resources |
| Lesson preparation | Before you start the digital content.   * Spilt the class into two groups for a team activity. * Inform students they will need a pen and paper. |  |
| Watch Video | Video Content   * Welcome from Hollie, Diagnostic Radiographer. * Introduction to session and Radiography Images. * Introduction to the team competition.   Pause Video. | Give each student group   * 1 x Human X-Ray Pack from the box. |
| 5 Minute Task | * Team competition to build a human skeleton with X Ray Pack. * Teacher to pick winning team after timing 5 minutes. |  |
| Watch Video | Video content   * Congratulations to the winners! * Explanation of the structure of bones – cortical (compact) and cancellous (spongy). * Explanation of cortical bone (gives strength) and explains that we look for disruption in cortex on radiographs.   Pause Video. |  |
| Interactive | * Teacher to offer students Maltesers. Ask students to bite into them and look at the structure of cortical and cancellous bone. * Students to look at the replica vertebra and discuss and decide which replica bone is from the lumbar, thoracic and the cervical spine. | Give each Student   * 1 x Packet of Maltesers.   To each group   * 1 x set of replica vertebrae bone. |
| Play Video | Video Content   * Explanation of where each replica bone is from in the vertebra. * Radiographers use these materials (X-ray markers and foreign body markers) when imaging bones.   Pause Video |  |
| Interactive | * Ask the question. What do you think they might be used for? | Hand out to the class   * 2 X sets of X-Ray Markers. * 2 x sets of Foreign body Markers. |
| Play Video | Video Content   * Explanation of what the markers are for and why they are important to radiographers. * Explanation of different types of fractures – using carrots to demonstrate the mechanism of force and injury. * Example of a mechanism injury for students to test.   Pause Video |  |
| Interactive | * Challenge the students to try and break the polo mint in only one place. | Hand out to each student   * 1 x packet of Polo mints to given to each student. |
| Play Video | * Explanation of a contra-coup fracture. When looking for a fracture in a bony ring, we always look for a second injury. * Examples of other types of bony Rings in the human body.   Pause Video. |  |
| Watch Video  Interactive Quiz for students. | Play Video and then Pause and discuss each question. Play video when the class is ready to move onto the next question.   * Total of 10 quiz question and answers. * Overview of Diagnostic Radiography Career Path. * Starting Salary in the NHS. * Why study at University of Suffolk. * Available funding for Diagnostic Radiography Students.   End of Lesson in a Box   * Hand out student feedback forms. Once completed please return to box with non-perishable materials. | Student will need a Pen and Paper for the quiz. |