



HEALTHCARE SCIENCE

COURSE: 25.552 Applications of Therapeutic Services

UNIT: 6.1 Height and Weight



INTRODUCTION

Annotation:

In this unit students will learn to perform beginning and ending procedure actions while performing measurements such as height and weight on adults and infants, length and circumference. Students will also convert measurements to International units or U.S. Customary Units.

Grade(s):

| | |
|---|------------------|
| | 9 th |
| X | 10 th |
| X | 11 th |
| X | 12 th |

Time:

Two 50 minute periods

Author:

Pat Rutherford, RN Ed S

Additional Author(s):

Students with Disabilities:

For students with disabilities, the instructor should refer to the student's IEP to be sure that the accommodations specified are being provided. Instructors should also familiarize themselves with the provisions of Behavior Intervention Plans that may be part of a student's IEP. Frequent consultation with a student's special education instructor will be beneficial in providing appropriate differentiation.



FOCUS STANDARDS

GPS Focus Standards:

HS-ATS-9:

The student will demonstrate the process for basic assessment (i.e. vital signs, height, weight, etc...), monitoring, reporting and recording patient/client's health status.

- a. Consistently perform all "beginning and ending" procedures utilized in a clinical setting (i.e. wash your hands, gather equipment, provide for privacy, etc.)
- b. Evaluate factors that may affect temperature, pulse, respirations, blood pressure, height and weight including normal and abnormal values.
- c. Demonstrate the ability to utilize and accurately read manual and electronic equipment to measure vital signs, height and weight using aseptic technique as well as use other assessment instruments and equipment according to manufacturer's guidelines and accepted safety practices.
- d. Accurately use manual and electronic equipment to measure vital signs, height and weight.
- e. Report and record temperature, pulse, respirations, blood pressure, height and weight manually on graphic/flow sheets and/or electronically on mobile chart (when available) within designated time frame
- f. Apply mathematical concepts and perform mathematical calculations appropriate to clinical expectations and/or work-based learning site.

GPS Academic Standards:

MM2P4: Students will make connections among mathematical ideas and to other disciplines

ELA10LSV1: The student participates in student-to-teacher, student-to-student, and group verbal interactions.

National / Local Standards / Industry / ISTE:



UNDERSTANDINGS & GOALS

Enduring Understandings:

- Students will understand the importance of performing, recording and reporting height and weight accurately
- Students will understand the importance of performing, recording and reporting height and weight accurately
- Student will understand the correct technique to obtain height and weight and how to report in International Units (Metric) and English (U. S. Customary Units)

Essential Questions:

- How do I carry out beginning and ending procedure actions?
- How do I accurately perform and convert measurements on a resident/patient/client?

Knowledge from this Unit:

- How do you read a ruler?
- What devices are utilized in order to obtain height and weight?
- How to use measurement equipment
- How to calibrate a scale to get accurate measurements

Skills from this Unit:

- Recall steps to measure height and weight
- Identify the instruments and or equipment used to obtain height and weight.
- Demonstrate the correct technique to obtain height and weight
- Accurate measure other body parts



ASSESSMENT(S)

Assessment Method Type:

- Pre-test
- Objective assessment - multiple-choice, true- false, etc.
 - Quizzes/Tests
 - Unit test
- Group project
- Individual project
- Self-assessment - May include practice quizzes, games, simulations, checklists, etc.
 - Self-check rubrics
 - Self-check during writing/planning process
 - Journal reflections on concepts, personal experiences and impact on one's life
 - Reflect on evaluations of work from teachers, business partners, and competition judges
 - Academic prompts
 - Practice quizzes/tests
- Subjective assessment/Informal observations
 - Essay tests
 - Observe students working with partners
 - Observe students role playing
- Peer-assessment
 - Peer editing & commentary of products/projects/presentations using rubrics
 - Peer editing and/or critiquing
- Dialogue and Discussion
 - Student/teacher conferences
 - Partner and small group discussions
 - Whole group discussions
 - Interaction with/feedback from community members/speakers and business partners
- Constructed Responses
 - Chart good reading/writing/listening/speaking habits
 - Application of skills to real-life situations/scenarios
- Post-test

Assessment(s) Title:

Obtaining Height and Weight (At the bottom of this unit)

Assessment(s) Description/Directions:

Administer written assessment at end of unit

Attachments for Assessment(s):



LEARNING EXPERIENCES

Sequence of Instruction

1. Identify the Standards. Standards should be posted in the classroom for each lesson.

HS-ATS-9: The student will demonstrate the process for basic assessment (i.e. vital signs, height, weight, etc...), monitoring, reporting and recording patient/client's health status.

MM2P4, Students will make connections among mathematical ideas and to other disciplines

ELA10LSV1. The student participates in student-to-teacher, student-to-student, and group verbal interactions.

2. Review Essential Questions.

- How do I carry out beginning and ending procedure actions?
- How do I accurately perform and convert measurements on a resident/patient/client?

3. Identify and review the unit vocabulary.

4. Assessment Activity.

- a) Lecture and discuss height and weight, at this time inform the students of the facilities equipment. Stress to the students not to perform procedures until completed practice and check-off in the classroom. When at clinical, must have instructor when performing.
- b) Instruct how to convert measurements from pounds and ounces to kilograms and inches to centimeters write on the board the steps required to convert.
- c) Have students practice problems of conversions.
- d) Review video if available
- e) Demonstrate height and weight – explain the check-off procedure
- f) Have students practice in small groups
- g) Perform final check-off for instructor

Attachments for Learning Experiences:

Notes & Reflections:

Most classrooms may only have a standard upright scale for height and weight, therefore the lesson plan is directed toward that piece of equipment.



CULMINATING PERFORMANCE TASK (Optional)

Culminating Unit Performance Task Title:

Height and Weight

Culminating Unit Performance Task Description/Directions/Differentiated Instruction:

After students have been instructed on use of scales, divide into small groups and allow time for practice and peer checks, final check-off on measuring height and weight will be with instructor.

Student will perform measurement on a student; make sure students who are acting as patients do not object to another student knowing their weight, remind students of confidentiality of personal information.

Attachments for Culminating Performance Task:



UNIT RESOURCES

Web Resources:

<http://deptets.fvtc.edu/nursing/> online video lesson number 50

Attachment(s):

Materials & Equipment:

- Tape Measure to practice reading a ruler
- Outline
- White board and marker
- Height and Weight Check-off Sheet
- Classroom book
- Height and Weight Quiz
- Upright scale with height bar

What 21st Century Technology was used in this unit:

| | | | | | |
|--------------------------|-------------------------|-------------------------------------|--------------------|--------------------------|---------------------------------|
| <input type="checkbox"/> | Slide Show Software | <input type="checkbox"/> | Graphing Software | <input type="checkbox"/> | Audio File(s) |
| <input type="checkbox"/> | Interactive Whiteboard | <input type="checkbox"/> | Calculator | <input type="checkbox"/> | Graphic Organizer |
| <input type="checkbox"/> | Student Response System | <input type="checkbox"/> | Desktop Publishing | <input type="checkbox"/> | Image File(s) |
| <input type="checkbox"/> | Web Design Software | <input type="checkbox"/> | Blog | <input type="checkbox"/> | Video |
| <input type="checkbox"/> | Animation Software | <input type="checkbox"/> | Wiki | <input type="checkbox"/> | Electronic Game or Puzzle Maker |
| <input type="checkbox"/> | Email | <input checked="" type="checkbox"/> | Website | | |