

Title: Jobs at the Hospital: Respiratory Therapist

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Externship Business: [HSHS St. Clare Memorial Hospital](#)

Overview / Description:

A specific skill that was shared by the respiratory therapist during the teacher externship experience at HSHS St. Clare Memorial Hospital was the ability to read a Broselow Pediatric Reference Tape accurately in an emergency situation. In this lesson, students will gain experience in problem solving and teamwork as they practice using a Broselow Pediatric Reference Tape to measure a variety of “patients” and then apply that measurement correctly when answering associated questions.

Subject(s):

Health Education; Science Education

Grade Level(s):

Grades 6 - 8

Learning goals/objectives:

After completing this activity, students should be able to:

- *Describe the job of a respiratory therapist.
- *List at least 3 pros and 3 cons of the job.
- *Demonstrate proficiency when using the Broselow Pediatric Emergency Tape in a hands-on lab activity by scoring 95% or higher on the “Pediatric Emergency Lab Answer Sheet.”

Type of Activity (check all that apply):

- X Individual
- X Small Group
- X Whole Class

Teaching Strategies (check all that apply or include new strategies):

- X Partner work
- X Simulation

Content Standards:

Wisconsin Standards for Health Education

Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.

Standard 4: Students will demonstrate the ability to use interpersonal communication skills to enhance health and avoid or reduce health risks.

Standard 7: Students will demonstrate the ability to use health-enhancing behaviors and avoid or reduce health risks.

CCSS Literacy in Science and Technical Subjects

CCSS.ELA-LITERACY.RST.6-8.3

Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.

CCSS.ELA-LITERACY.RST.6-8.4:

Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.

Model Academic Standards for School Counseling

Academic Development Domain

Counseling Standard A: Students will acquire the attitudes, knowledge, and skills that contribute to successful learning in school and across the lifespan.

Counseling Standard C: Students will understand the relationship of academics to the world of work, and to life at home and in the community.

Counseling Standard G: Students will acquire the self-knowledge necessary to make informed career decisions.

Counseling Standard H: Students will understand the relationship between educational achievement and career development.

Length of Time and length of class periods:

35 - 40 minutes

Materials List (linked if online resource please):

- 5 Broselow Pediatric Emergency Reference Tape - *Broselow Pediatric Emergency Reference Tape can be purchased at www.armstrongmedical.com (\$120 / 5 Reference Tapes)
- 5 different sized "patients" (Dolls, Stuffed Animals - larger than a newborn infant)
- Pediatric Emergency Lab Answer Sheet
- Computer with Internet Access, LCD projector, and Sound

Directions (Step-by-Step):

1. Watch the youtube video, "Respiratory Therapist." (5:25)
https://www.youtube.com/watch?v=bm-Z__BVbog

2. Discuss my experience at the hospital.
 - *Nick is 1 of 3 Respiratory Therapists at HSHS St. Clare Memorial Hospital in Oconto Falls
 - *He works 12 hour shifts and is also on call at night whenever he is scheduled for day time hours.
 - *Nick is usually in the ER, but attends patients all over the hospital and the clinic.
 - *A Respiratory Therapist can also work in:
 - Wound Care
 - Breathing & Stress Tests
 - Sleep Studies
 - Home Health Care
 - *You need an associates degree (2 years) + another 2 years in a respiratory care program to become a Respiratory Therapist.
3. Tell the students:

“One of the most difficult things to deal with as a respiratory therapist (according to Nick) is emergencies involving babies, toddlers, and children. It is important that correct height and weight is determined quickly so that correct breathing tubes, blades, medications, etc. can be used. In the emergency room, they use the Broselow Pediatric Emergency Reference tape to make decisions.”
4. Broselow Pediatric Emergency Reference Tape: **SHOW** the YouTube Video at https://www.youtube.com/watch?v=KHj_lkDsXKs (1:59) for a description of what the Broselow Tape is and how it is used.
5. Hand out a copy of the Pediatric Emergency Lab answer sheet. Discuss.
6. Divide the class into 5 groups and assign each group to a “patient.”
 - *Tell the students their emergency team will use the Broselow Pediatric Emergency Reference tape on their “patient” to determine answers to the questions on the worksheet for that “patient.”
7. Groups will rotate to a different patient after 5 minutes (or once all questions are answered) until all students have seen all patients.
8. Hand in completed worksheets at the end of class.

Wrap-Up:

After seeing a demonstration on using the Broselow Pediatric Emergency Reference Tape, students will demonstrate their ability to use the tape with accuracy by taking part in the “Pediatric Emergency Lab.”

Formative/Summative Assessment:

Pediatric Emergency Lab - Answer Sheet

<https://drive.google.com/a/cesa8.org/file/d/1PWDXf4gEdpKn3wW1NbnughRexBGoltfd/view?usp=sharing>

Extension Activity for differentiation:

Students may draw upon their understanding of the Broselow Pediatric Emergency Reference Tape by creating challenge questions for group members and/or finding a “patient” of their own to use the tape with.

Students with special education needs may work with the alternate Lab Answer Sheet

https://drive.google.com/a/cesa8.org/file/d/1mnT6GKPWoe_8CmwCFIfvk9o70ug8kimQ/view?usp=sharing

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