

42. Health Science Cluster - Physicians (4 hours)

Purpose/Abstract: To introduce students to Physicians’ roles and responsibilities.

NCCCS Adult Education Standards: R.3.2.4, S.1.2.2, M.5.2.3

Learning Objective:
By the end of the session, students will be able to:

- Summarize the key responsibilities and functions of physicians, showcasing an understanding of their roles within the healthcare system.
- Participate in respectful discussions about physician roles, drawing on personal experiences to identify required technical and soft skills.
- Collaboratively apply multiplication and division in medical scenarios to cultivate problem-solving skills, while emphasizing teamwork and effective communication.

Soft Skills	problem solving and critical thinking, teamwork, communication	Resources	<p>Skills to Pay the Bills (STPTB) (for instructor reference to define each soft skill category)</p> <p>Exploring Careers in Health Science PBS LearningMedia</p> <p>General Internal Medicine Physicians Career Video</p> <p>NC Career Clusters Guide (for instructor reference)</p> <p>Handouts: Vocabulary Practice - one for each student Reading Comprehension - one for each student Math Practice - one for each student</p>
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Additional Materials

- Vocabulary Practice handout, one for each student
- Reading Comprehension, one for each student
- Math Practice, one for each student
- Art supplies (glue, glitter, markers, paint, etc.)
- Pencils, paper, and scissors
- Computers for student use

Icons	 Activity	 Check-In	 Review
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PREPARATION

- Watch the videos below and prepare to guide discussions around them.
 - [Exploring Careers in Health Science | PBS LearningMedia](#)
 - [General Internal Medicine Physicians Career Video](#)
- Review the [Instructional Support Guide](#) and print/prepare referenced scaffolds.
- Print handouts.
- Familiarize yourself with the [NC Career Clusters Guide](#).
- Familiarize yourself with [O*NET](#)



- Familiarize yourself with [Skills to Pay the Bills](#), though it won't be used directly in this lesson.

INTRODUCTION (30 min)

Welcome students to the class!

Have students share a positive experience they've had with a doctor. Encourage them to briefly describe the situation and how the doctor helped them.

Watch the [Exploring Careers in Health Science](#) video with students and discuss various roles in the Health Science Cluster.

Lead a brief discussion on the importance of healthcare and the role of physicians in the healthcare system. Highlight the main responsibilities and functions of physicians borrowing from the video and your own knowledge.

Tell students this lesson will focus on understanding more about the roles and the responsibilities of physicians and how they fit in the healthcare system.

Share the objectives of the lesson.

VOCABULARY, READING & WRITING (45 min)

Tell students that they will explore some common words related to physicians. Distribute the Crossword Puzzle handout and allow 15 minutes for students to complete it.

Walk around and provide support as required.

Distribute the reading comprehension handout. Instruct students to take 15-20 minutes to read the passage.

Bring the class together.

REFLECTION (10 minutes)

- ✓ Ask students the following questions and guide a discussion on what they've read.
 - *Why do patients visit physicians when they're not feeling well?*
 - *Imagine you are a physician. How would you use a stethoscope to help diagnose a patient's condition?*
 - *How do physicians use problem-solving and critical thinking skills when diagnosing an illness?*
 - *In what ways can effective communication help a physician better understand their patients' concerns and explain treatments?*
 - *Compare and contrast the roles of a physician and a nurse in a healthcare setting.*

Emphasize the importance of problem solving and critical thinking, teamwork, communication for physicians.

Lower Level

Higher Level

Pair students up for the reading activity and encourage them to read aloud to their partner.

Challenge students to research and list out different types of physicians.

MATHEMATICS (45 min)

Explain that students will continue to practice multiplication and division word problems.

Distribute the math practice handout. Allow students to work independently or in pairs. Give them ample time to complete the worksheet.

REFLECTION (10 minutes)

✓ Reviw the answers with the whole class.

Reiterate the importance of basics math operations in health science cluster careers.

Lower Level

Pair students up or group them together so you can provide targeted support.

Higher Level

Encourage students to create similar problems and solve with their partner for additional practice.

GROUP WORK (60 min)

Divide students into groups of 4.
Provide the following instructions.

- Begin by watching the YouTube video on the physician role as a group. Pay close attention to the various aspects of a physician's responsibilities and the skills they require.
- After watching the video, engage in a respectful discussion within your group about the roles of physicians. Share personal experiences you've had with doctors or medical professionals. Discuss the qualities, technical skills, and soft skills you think are important for a physician to have. Consider how problem-solving, critical thinking, teamwork, and communication skills play a role in their daily work.
- Reflect on the video and your discussion to identify the ways in which physicians apply problem-solving and critical thinking skills in their practice. *How do these skills help them make decisions about patient care and treatment plans?*
- Think about the importance of teamwork and effective communication for physicians. *How do they collaborate with other healthcare professionals and communicate with patients to ensure the best possible outcomes?*
- As a group, create a list of at least five key technical skills and five soft skills that physicians need. Be ready to share your list and insights with the rest of the class.
- Each group will present their findings and discuss their list of skills with the class. This will be an opportunity to learn from each other and gain a comprehensive understanding of the multifaceted role of physicians.

Remind students that this is a chance to share their thoughts and ideas while also respectfully listening to their classmates' perspectives. By the end of this activity, they will have a deeper appreciation for the skills required to excel as a physician and how these skills contribute to quality patient care.

 REFLECTION (20 minutes)

✓ Have each group share their findings. Guide a short discussion about skills that students list out.

INDEPENDENT WORK TIME (45 min)

Have students individually reflect on the group activity. Ask them to write about their contributions, challenges faced, and how they effectively communicated within the group. Encourage students to highlight the soft skills they utilized during the activity.

Provide students the option to work on their math worksheets or similar problems during this time if they require additional practice.

Lower Level

Provide sentence starters and guide students to reflect independently if required.

Higher Level

Challenge students to think about how these skills they identified will help them in their life and chosen careers. Have them write their thoughts down.

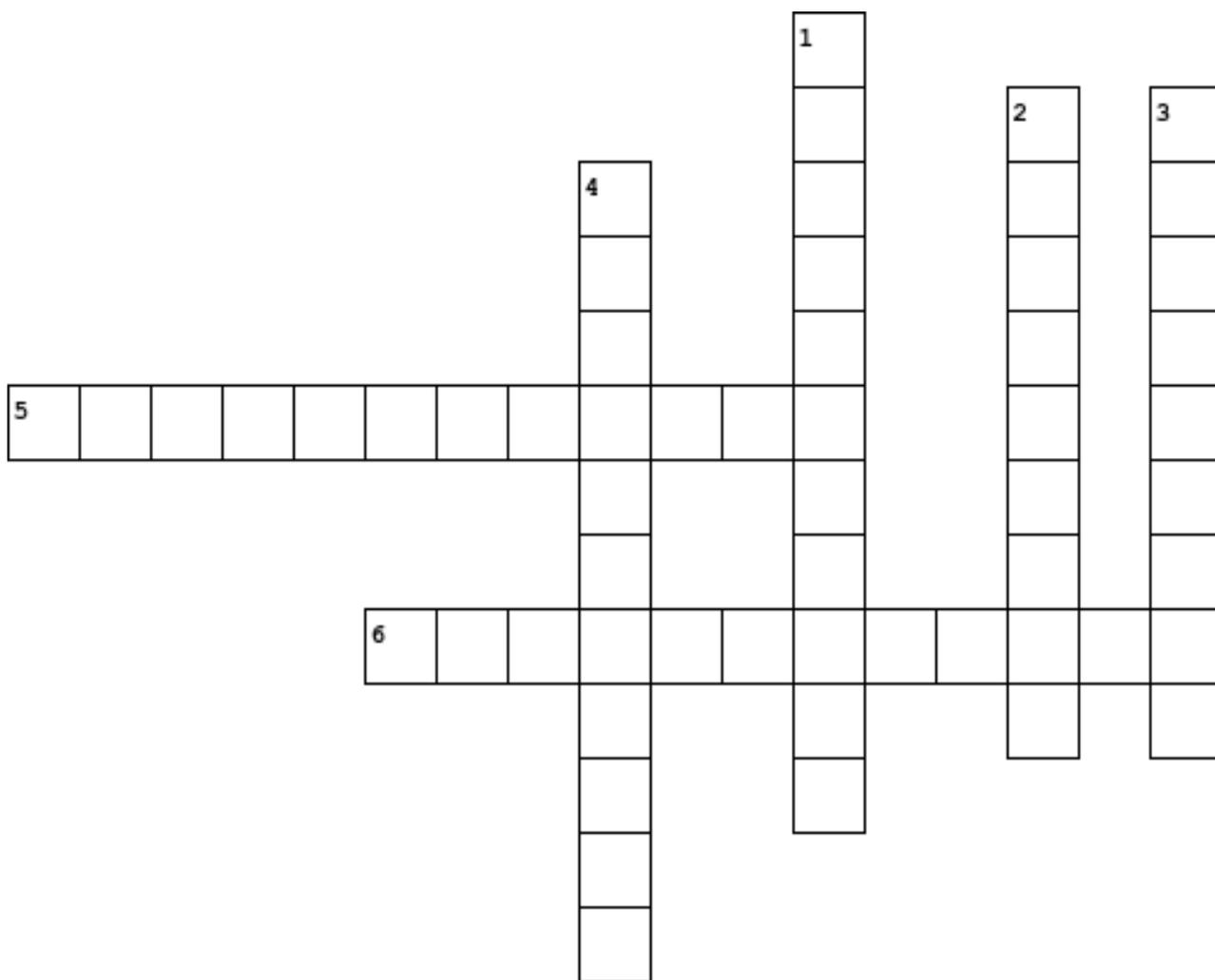
WRAP-UP & REFLECTION (15 min)

Distribute exit slips to students.
Ask for a few volunteers to share their reflections.
Collect and review the answers.

Vocabulary Practice

Directions:

- Solve this crossword puzzle using the clues given below.
- Use this list of words to help you
 - Diagnosis, Examination, Stethoscope, Prescription, Treatment, Consultation



Across

- 5** -A meeting between a patient . and a physician to discuss health concerns, receive advice, and plan further medical steps.
- 6** - A written order from a physician . for the medications and treatments a patient needs.

Down

- 1** - A thorough inspection and . assessment of a patient's body to determine their health condition.
- 2** - The process of identifying a . disease or condition based on symptoms, tests, and medical history.
- 3** -Medical care provided by a . physician to help improve or cure a patient's health condition.
- 4** - A medical instrument used by . physicians to listen to sounds inside the body, such as the heartbeat and breathing.

Reading Comprehension

Physicians are important members of the healthcare team. They play a crucial role in helping people stay healthy and treating them when they are sick. When someone isn't feeling well, they visit a physician to get better. Physicians have a deep understanding of the human body and how it works.

One of the important things physicians do is diagnose illnesses. Diagnosing means figuring out what's wrong with a person's body. They ask patients questions about how they feel and perform examinations to listen to the sounds inside, like the heartbeat and breathing. Using a special tool called a stethoscope, physicians can hear the "lub-dub" sound of the heart and the gentle whoosh of the lungs.

Once the physician figures out what's wrong, they might write a prescription. A prescription is like a special note that tells the patient what kind of medicine to take and how much. It's important for the patient to follow the physician's instructions and take the medicine to start feeling better.

Physicians also use their skills to decide on the best treatment for each patient. Treatment can include medicine, exercises, or even suggestions for changes in how a person lives, like eating healthier foods or getting more sleep. They explain these treatments to their patients and answer any questions they may have.

But being a physician isn't just about knowing medical things. Soft skills, like problem solving and critical thinking, are very important. Physicians need to think carefully about what could be causing a patient's symptoms and come up with the best way to help them. They also need to work well in teams, especially in hospitals where different healthcare professionals come together to care for patients. Good communication is key. Physicians need to talk to their patients, understand their concerns, and explain things in a way that's easy to understand.

In conclusion, physicians are like health detectives. They use their knowledge, skills, and soft skills to solve medical mysteries and make people feel better. They're not only experts in the human body but also in understanding how to help people in a caring and respectful way.

Math Practice

1. A physician has 5 patients, and each patient needs to take 3 pills per day. How many pills will be needed for all the patients in one day?
2. A physician wants to prescribe a 7-day supply of medicine, with 4 pills per day. How many pills will the patient need in total?
3. A physician needs to distribute 24 bandages to 6 different rooms in a clinic. How many bandages should be placed in each room?
4. A physician has 48 pills and wants to distribute them equally among 8 patients. How many pills will each patient receive?
5. A physician prescribes a 14-day medication, and the total pills needed are 98. How many pills should the patient take per day?
6. A physician has 36 gloves and wants to divide them equally among 9 medical students. How many gloves will each student receive?

Reflection Exit Slip

In one sentence, describe what you learned in this lesson.

Today, I learned _____.

Is one of the careers discussed today of interest to you? Why or why not?

I liked / did not like _____ career because _____

Is there anything you still need help understanding?

What's one question you have?

Circle the emoji that shows how you feel about your mastery of content in this lesson.



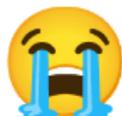
Happy



Smart



Confused



Sad



Angry