**KNOWLEDGE**
1. What are the causes and symptoms of ARDS?

**COMPREHENSION**
2. How does CFH result in a patient developing ARDS?
3. Can you explain what a physician-scientist does and why this role is important?
4. Why is it important to use human lungs in studies of ARDS?

**APPLICATION**
5. In what ways would suffering from ARDS affect someone on a day-to-day basis?

**ANALYSIS**
6. What are the advantages and disadvantages of having physician-scientists work on treating diseases?

**SYNTHESIS**
7. How would you design a trial to test the effects of environmental factors, such as pollution, on ARDS?

**EVALUATION**
8. Do you think testing treatments on patients in hospitals is a good or bad thing? Can you think of any solutions or problems that may arise from this method?

**CREATIVITY**
9. Imagine Julie finds another molecular pathway that results in CFH causing ARDS. She wants you to find a drug or treatment that blocks this molecular pathway. How would you use experimental models to test this drug? How would you set up a clinical trial to test potential treatments on patients?

**TALKING POINTS**
- Imagine you are interviewing Julie to find out more about her career. Write a list of 10 questions you want to ask. You might want to find out more about:
  - what her day-to-day work in the lab and on the ward involves
  - how her different models work
  - where she wants her research to be in 5-10 years
- Create a presentation for a careers day at your school or college, encouraging students to consider a career as a physician-scientist. Explain why physician-scientists are important to the medical community, what skills you will gain if you pursue this career and what joys and challenges you are likely to experience.

**ACTIVITIES YOU CAN DO AT HOME OR IN THE CLASSROOM**

**MORE RESOURCES**
- Visit the website for Julie’s research lab: [www.lstci.org](http://www.lstci.org)
- Learn more about physician-scientists from the AAMC: [www.aamc.org/what-we-do/mission-areas/medical-research/physician-scientist](http://www.aamc.org/what-we-do/mission-areas/medical-research/physician-scientist)