

# Film Guide For Lorenzo's Oil

Please read these questions over before you see the film!!! Then consider and write your answers on your own paper.

1. Show how Lorenzo's parents used the scientific method to solve their problem. State the problem, ask a question and use examples from the film to illustrate the steps.
2. From the description of the disease, ALD, sketch what Lorenzo's neurons most likely looked like after a year. Include a sketch of a normal neuron.
3. ALD is caused by a known gene. What are the probable genotypes of the family members listed? Aunt #1, Aunt #2, Aunt Dee, Michalla, Augusto, Lorenzo.
4. What is Lorenzo's Oil? How does it work? Use the sink model from the film.
5. Explain Augusto's use of paper clips to represent good and bad fatty acids. What did his dream help him understand?
6. How do analogies help you to understand the scientific problem? How did modeling help solve the scientific problem? Give another example of how a model was used to help you understand any concept in a science class.
7. Did the family's courage and persistence inspire you? How?

8. While it might seem hard to swallow, many researchers defend the position that diseases that affect a small % of the population should not get as much money for research as the big killers like cancer and heart disease. Are they correct? Explain why.
9. Why did olive oil not work completely? Trace the developments in the different kinds of oils discovered.
10. What was found out from the Polish biochemist? What was the purpose of the ALD Symposiums? What happens when scientists work in isolation?
11. What is erucic acid?
12. Where was the myelin research being done? What was the experiment? How could this research help Lorenzo?
13. How did the treatment for ALD really happen by accident?