

## Problem Solving: Level III

Student's Name \_\_\_\_\_

Assessor's Name \_\_\_\_\_

Graduation Year \_\_\_\_\_

Date \_\_\_\_\_

The **Level Three** advanced student will demonstrate:

- The ability to address multi-dimensional problems of a biomedical nature that require a detailed knowledge base.
- The ability to integrate the basic sciences and clinical aspects of medicine with knowledge of the behavioral sciences, spanning the spectrum from the molecular to the community level and from conception to old age.
- The ability to accomplish tasks despite unforeseen obstacles, unanticipated circumstances, unusual situations, and unexpected actions or consequences.

### A. Recognizes that a problem exists

<b>1</b> Unaware; detached; cannot distinguish relevant/ irrelevant, ignores discrepancies; abnormal findings unrecognized	<b>2</b>	<b>3</b> Observant; empathetic; distinguishes relevant/irrelevant information; recognizes discrepancies; separates abnormal from normal findings	<b>4</b>	<b>5</b> Keenly aware; engaged emotionally with patient problems; quickly recognizes important information; easily separates normal and abnormal findings
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### B. Characterizes the problem clearly and objectively

<b>1</b> Disorganized approach to problem; does not identify important issues; cannot estimate implications, severity or extent of problem	<b>2</b>	<b>3</b> Organizes information effectively; identifies most relevant issues; realistically defines implications, severity, extent of problem	<b>4</b>	<b>5</b> Exemplary organizational skills; focuses on important issues; excellent at defining implications, severity and extent of problem
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### C. Examines the problem from different points of view

<b>1</b> Intolerant/inconsiderate of other opinions; socioeconomic/cultural contexts ignored; unaware of need for outside help in solving problem	<b>2</b>	<b>3</b> Tolerant/considerate of other opinions; considers socioeconomic/cultural contexts; seeks expert help for problems outside learner's range	<b>4</b>	<b>5</b> Eagerly seeks other opinions; constantly aware of social and cultural contexts of problem; quick to seek expert help in order to advance learner's knowledge
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### D. Collects and integrates necessary information

<b>1</b> Unable to find, assess accuracy of, integrate, detect gaps in, or evaluate information	<b>2</b>	<b>3</b> Identifies information sources; able to integrate, evaluate, assess accuracy of and detect gaps in information	<b>4</b>	<b>5</b> Finds best source of information; interprets and integrates information to fullest extent
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### E. Generates and analyzes a set of potential solutions

<b>1</b> Poor use of prior/acquisition of new knowledge; potential solutions not generated	<b>2</b>	<b>3</b> Uses prior/acquires new knowledge; uses knowledge to generate potential solutions	<b>4</b>	<b>5</b> Naturally generates potential solutions, acquires appropriate new knowledge to refine/expand list of solutions
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### F. Formulates an informed plan of action to address the problem

<b>1</b> Does not anticipate complex influences/barriers/problems with plan or develop secondary strategies	<b>2</b>	<b>3</b> Recognizes complex influences/ barriers / problems with plan and develops secondary strategies	<b>4</b>	<b>5</b> Keenly aware of all influences/barriers to plan; formulates plan with several alternate strategies anticipating opposing views or adverse effects
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### G. Implements a solution

<b>1</b> Indecisive Poor at reaching/ explaining solution; solution based on faulty analysis; no follow-up	<b>2</b>	<b>3</b> Decides/explains solution well; solution based on sound analysis, follows up & reevaluates	<b>4</b>	<b>5</b> Confidently decides/explains solution; based on sound values/ goals, routinely plans follow-up and reevaluation
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### H. Assesses Results

<b>1</b> Ignores or misinterprets results; uses poor data analysis methods; conclusions unjustified	<b>2</b>	<b>3</b> Results analyzed/interpreted using valid and reliable data/methods; conclusions justifiable	<b>4</b>	<b>5</b> Uses best/most reliable methods to analyze results; draws best conclusions in light of data and analysis performed
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Please average the scores from each of the activities that you assessed [e.g., (A + B + C + D + E + F + G + H) ÷ 8]

Average Score \_\_\_\_\_

Comments: