

Describe Problem	
State the problem (one object, one deviation)	
What object (or group of objects) has the deviation?	What deviation does it have?
What do we see, hear, feel, taste, smell, or measure that tells us there is a deviation?	What data tells us it exists?
Specify the problem	
Pattern = continuous, periodic, sporadic, single occurrence Trend = increasing, decreasing, stable	
IS	IS NOT

WHAT	HOW	WHEN	WHERE	WHY
What object?				
What deviation?				

WHERE	
Where geographically?	
Where on the object?	

WHEN		
When first?		
When since?		
What pattern?		
When in the life cycle?		

EXTENT		
How many objects?		
What is the trend?		
What is the size?		
What is the trend?		
How many deviations?		
What is the trend?		

Identify Possible Causes		
<p>Use knowledge and experience OR...</p> <p><i>What pairs in the Problem Specification are surprising? What else could have caused this deviation?</i></p>	<p><i>What causes do they suggest? What would experts say?</i></p>	<p><i>Record possible causes</i> ➡</p>
<p>...Use distinctions and changes</p> <p><u>Look for Distinctions</u> <i>What is different, odd, unusual, special, unique, or peculiar about each IS compared to its IS NOT?</i></p> <p><i>What else is different...?</i></p> <ul style="list-style-type: none"> • New information • Based on facts • True only of the IS 	<p><u>Look for Changes</u> <i>What changed in, on, around, or about each distinction? When did the change occur? Record date and time</i></p> <p><i>What else has changed...?</i></p> <p><i>If no change, use NKC—No Known Change</i></p>	<p><i>Record possible causes</i> ➡</p> <p><i>How could this... Change Change plus distinction Change plus change Distinction ...cause this deviation?</i></p>
Distinctions	Changes	Date

[illegible][illegible]This image shows a blank sheet of white paper designed for primary-level handwriting practice. It features three distinct horizontal sections, each defined by a solid top line and a dotted bottom line. The first section occupies the top third of the page, the second section the middle third, and the third section the bottom third. Each section provides ample space for practicing letter formation and sentence construction.

Evaluate Possible Causes

Test possible causes

For each IS/IS NOT pair, answer the following question:

If (Possible Cause) is the cause of (Problem Statement), then how does it explain both the IS and IS NOT information?

(Y) YES, explains because...

(N) NO, does not explain because...

Record supporting data

(A) Explains ONLY IF (assumption)...

List all assumptions

	Possible Cause
<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="width: 10px; height: 10px; background-color: white; margin: 0 auto;"></div> </div> <p style="margin-top: 10px;">MPC</p>	
Y, N, A	

Evaluate Possible Causes	
Test possible causes	
<p>For each IS/IS NOT pair, answer the following question:</p> <p>If (Possible Cause) is the cause of (Problem Statement), then how does it explain both the IS and IS NOT information?</p>	
<p>(Y) YES, explains because...</p> <p>(N) NO, does not explain because...</p> <p>Record supporting data</p>	<p>(A) Explains ONLY IF (assumption)...</p> <p>List all assumptions</p>
<div style="display: flex; justify-content: space-between; align-items: center; padding: 5px;"> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div> <div>Possible Cause</div> </div>	
<p>MPC</p>	
<p>Y, N, A</p>	

