



# KIDS N TECHNOLOGY | AI-STEM SMART™

## Unit 1 — Lesson 2 | Performance Assessment Rubric

### How AI Responds: Data, Patterns & Predictions

|               |       |        |
|---------------|-------|--------|
| Student Name: | Date: | Class: |
|               |       |        |

### Quick Scoring Guide

| LEVEL   | DEVELOPING                                               | PROFICIENT                                                                      | MASTER                                                                                      | TOTAL                  |
|---------|----------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------|
| Points  | 1 point                                                  | 2 points                                                                        | 3 points                                                                                    | 3 criteria = 9 pts max |
| Meaning | Needs support connecting AI process concepts to evidence | Meets core AI literacy goals for data, patterns, predictions, and hallucination | Explains the full data→pattern→prediction chain and its implications with specific evidence |                        |

### Performance Criteria

| 1  AI Process Understanding<br><i>Focus: Can the student explain the data → pattern → prediction chain in their own words?</i>                                        |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEVELOPING<br>1 point                                                                                                                                                                                                                                    | PROFICIENT<br>2 points                                                                                                                                                                                                                                                                                  | MASTER<br>3 points                                                                                                                                                                                                                                                                                                                |
| Students cannot explain how AI generates a response or confuses prediction with conscious thinking or retrieving facts. <ul style="list-style-type: none"><li>"AI looks up."</li><li>"AI knows the answer."</li><li>"AI thinks like a person."</li></ul> | Students explain that AI uses data and patterns to predict responses — not conscious decisions or fact retrieval. <ul style="list-style-type: none"><li>Names data, patterns, and predictions</li><li>Explains AI predicts rather than decides</li><li>Shows basic understanding of the chain</li></ul> | Students clearly describe the data prediction chain, gives a specific example from the lesson demo, and names one thing this process cannot do. <ul style="list-style-type: none"><li>Explain all three steps with accuracy</li><li>Uses lesson demo as evidence</li><li>Names a limitation of pattern-based prediction</li></ul> |
| Score: <input type="checkbox"/> 1                                                                                                                                                                                                                        | Score: <input type="checkbox"/> 2                                                                                                                                                                                                                                                                       | Score: <input type="checkbox"/> 3                                                                                                                                                                                                                                                                                                 |

| <div>2</div> <div>  <b>Hallucination &amp; Verification</b><br/> <i>Focus: Can the student explain what a hallucination is and why human verification is required?</i> </div>                                                                                        |                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEVELOPING<br>1 point                                                                                                                                                                                                                                                                                                                                 | PROFICIENT<br>2 points                                                                                                                                                                                                                                                                                                          | MASTER<br>3 points                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>Students do not recognize that AI can produce wrong responses or believe AI responses are always accurate because the AI 'knows' things.</p> <ul style="list-style-type: none"> <li><i>"AI always gives the right answer."</i></li> <li><i>"If it sounds good it must be true."</i></li> <li><i>No mention of checking or verifying</i></li> </ul> | <p>Students explain that AI can make confident-sounding mistakes and that humans should always check responses before trusting or using them.</p> <ul style="list-style-type: none"> <li><i>Names or hallucinations</i></li> <li><i>States that AI can be wrong</i></li> <li><i>Identifies need for verification</i></li> </ul> | <p>Student defines hallucination precisely (optimizing for plausibility, not truth), explains why it happens, and connects it to a specific example from the lesson demo with a clear verification recommendation.</p> <ul style="list-style-type: none"> <li><i>Uses 'plausibility vs. truth' distinction</i></li> <li><i>References pizza taste example or equivalent</i></li> <li><i>Gives a specific verification action</i></li> </ul> |
| Score: □ 1                                                                                                                                                                                                                                                                                                                                            | Score: □ 2                                                                                                                                                                                                                                                                                                                      | Score: □ 3                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| <div>3</div> <div>  <b>Question Quality &amp; Critical Thinking</b><br/> <i>Focus: Can the student explain how prompt specificity shapes AI output and relate this to hallucination risk?</i> </div>                   |                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEVELOPING<br>1 point                                                                                                                                                                                                                                                                                    | PROFICIENT<br>2 points                                                                                                                                                                                                                                                                                                                     | MASTER<br>3 points                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>Students cannot explain why one question is better than another or provides no reasoning beyond personal preference.</p> <ul style="list-style-type: none"> <li><i>"B sounds better."</i></li> <li><i>"A is too short."</i></li> <li><i>No connection to AI behavior or output quality</i></li> </ul> | <p>Student identifies the more specific question and gives a basic reason why specificity improves AI responses.</p> <ul style="list-style-type: none"> <li><i>Choosing Question B correctly</i></li> <li><i>Gives one reason related to detail or clarity</i></li> <li><i>Shows basic connection between prompt and output</i></li> </ul> | <p>Student explains how a specific, detailed prompt shapes AI output, connects prompt quality to the risk of missing context or hallucination, and suggests what an even better prompt might include.</p> <ul style="list-style-type: none"> <li><i>Explains details better pattern match</i></li> <li><i>Connects vague prompts to hallucination risk</i></li> <li><i>Proposes an improvement to either question</i></li> </ul> |
| Score: □ 1                                                                                                                                                                                                                                                                                               | Score: □ 2                                                                                                                                                                                                                                                                                                                                 | Score: □ 3                                                                                                                                                                                                                                                                                                                                                                                                                       |

# Score Summary

| CRITERION                               | POSSIBLE | EARNED | NOTES |
|-----------------------------------------|----------|--------|-------|
| 1. AI Process Understanding             | 3        | —      |       |
| 2. Hallucination & Verification         | 3        | —      |       |
| 3. Question Quality & Critical Thinking | 3        | —      |       |
| TOTAL SCORE                             | 9        | — / 9  |       |

# Teacher Feedback

|                                                                                             |                                                                                                 |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>GLOW  | <p>What did this student do particularly well?</p> <hr/>                                        |
| <br>GROW | <p>What would strengthen this student's understanding of AI accuracy or verification?</p> <hr/> |