

AI DISCOVERERS | ELEMENTARY

Pattern Detectives

How Machines Notice Similarities

Grades 3-5

45-60 minutes

ASSESSMENT AND OBSERVATION TOOLS

Teacher use | AI Discoverers

Students explore patterns, classification, evidence checking, fairness, and the role of human judgment when machines group or recommend information.



NOTICE



CHECK



THINK



CREATE

Teacher Observation Checklist

Student / Group	Observed	Developing	Notes
Identifies observable similarities and differences.	☐	☐	
States a clear sorting rule.	☐	☐	
Applies the rule consistently.	☐	☐	
Uses evidence to explain a choice.	☐	☐	
Recognizes that more than one rule may be reasonable.	☐	☐	
Explains that examples or labels influence a machine's result.	☐	☐	
Identifies a possible error, limitation, or unfair grouping.	☐	☐	
Explains why human review is important.	☐	☐	

Four-Level Performance Rubric

Level	Descriptor
4 - Established	Explains the classification rule clearly, applies it consistently, compares alternate rules, identifies a limitation, and justifies why human review is needed.
3 - Developing	Explains a reasonable rule, applies it in most cases, and identifies a basic reason for human review.
2 - Beginning	Identifies some similarities but needs support to state or apply a consistent rule and explain why review is needed.
1 - Not Yet	Shows limited evidence of recognizing relevant features or explaining a classification decision.

Exit Ticket Scoring Guide

Meets: Student explains that machines find patterns from examples or features and gives a relevant reason that people should check the result.

Approaching: Student provides one correct idea but the explanation is incomplete or unclear.

Needs Support: Student response does not yet show the relationship between patterns, machine results, and human review.

Responsible Learning Checklist

- ☐ The student did not share private or sensitive information.

- ☐ The student explained their own reasoning.
- ☐ The student questioned a result instead of accepting it automatically.
- ☐ The student considered possible mistakes or unfairness.
- ☐ The student used respectful language when comparing ideas.