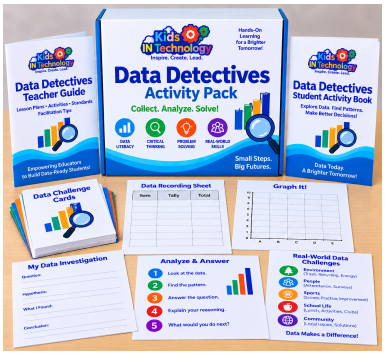
Data Detectives

COLLECT. ANALYZE. FIND PATTERNS. SOLVE.



What Students Do

Students investigate real-world questions by collecting data, organizing observations, creating simple graphs, finding patterns, and explaining what the evidence shows. They use data to make decisions and explore why data quality matters when people - and AI systems - look for patterns and make predictions.

24	60	3-8	NO
STUDENTS	MINUTES	GRADES	DEVICE REQUIRED

KNT Activity Pack Includes

- Teacher Guide with lesson plans, standards connections, and facilitation tips
- Student Activities Book for collecting, analyzing, and explaining data
- Data Challenge Cards with real-world investigation prompts
- Data Recording Sheets, graphing pages, and My Data Investigation worksheet
- Analyze & Answer guide for finding patterns and explaining reasoning
- Real-World Data Challenges covering environment, people, sports, school life, and community

Students Learn To

- Collect and organize simple categorical or numerical data
- Create and interpret tables, tallies, and basic graphs
- Identify patterns, trends, and differences in a data set
- Use evidence to answer a question and explain reasoning
- Recognize that incomplete, biased, or poor-quality data can lead to weak conclusions
- Connect data literacy to how AI systems use data to identify patterns and make predictions

How It Works

1. **QUESTION** — Choose a real-world question or challenge and decide what information is needed.
2. **COLLECT** — Record observations or survey results using the Data Recording Sheet.
3. **ANALYZE** — Create a graph, look for patterns, and compare what the data shows.
4. **DECIDE** — Answer the question, explain the reasoning, and identify what additional data could help.

Good Decisions Start With Good Data.

Students learn that patterns can help us make predictions, but the quality of the conclusion depends on the quality of the data. The same principle matters in AI: incomplete or biased data can influence the patterns an AI system learns.

Designed for flexible afterschool, summer, classroom, and expanded-learning implementation.

Kids N Technology

Hands-on AI + STEM learning for schools, afterschool, summer, and youth-serving programs.

Discuss Curriculum + Kits

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