

Mancala

Skills & Standards Alignment Guide

SKILLS DEVELOPED THROUGH MANCALA

Grades K–2

- Counting with one-to-one correspondence
- Number recognition and quantity tracking
- Turn-taking and rule-following
- Basic strategic thinking
- Fine motor coordination
- Early pattern recognition

Grades 3–5

- Mental counting and addition
- Planning multi-step moves
- Predicting outcomes of actions
- Recognizing board patterns
- Introduction to strategy and resource management
- Flexible thinking when plans change

Grades 6–8

- Strategic planning and foresight
- Systems thinking
- Evaluating multiple possible moves
- Resource allocation and efficiency
- Adaptive decision-making
- Game strategy analysis

Grades 9–12

- Strategic optimization
- Long-term planning under constraints
- Game theory concepts
- Analytical decision-making
- Pattern analysis and predictive reasoning
- Efficiency and resource management strategies

MANCALA STANDARDS ALIGNMENT

Mancala develops counting fluency, strategic thinking, pattern recognition, and analytical decision-making. These skills naturally support mathematics and reasoning standards across grade levels.

INDIANA ACADEMIC STANDARDS (2020) – Mathematics

- **Kindergarten – K.NS.1:** Count to at least 100 by ones and tens.
- **Grade 2 – 2.C.1:** Add and subtract within 100 using strategies based on place value.
- **Grade 3 – 3.NS.3:** Fluently add and subtract within 1,000.
- **Grade 5 – 5.DA.1:** Collect and interpret data.
- **Grade 7 – 7.DSP.4:** Develop probability models and analyze outcomes.
- **High School – PS.P.1:** Understand and calculate probabilities of events.

COMMON CORE STATE STANDARDS (CCSS) – Mathematics

- **Kindergarten – CCSS.MATH.CONTENT.K.CC.A.4:** Understand the relationship between numbers and quantities.
- **Grade 3 – CCSS.MATH.CONTENT.3.OA.D.8:** Solve multi-step problems using operations.
- **Grade 5 – CCSS.MATH.CONTENT.5.NF.B.6:** Solve real-world mathematical problems.
- **Grade 7 – CCSS.MATH.CONTENT.7.SP.C.7:** Develop and analyze probability models.
- **High School – CCSS.MATH.CONTENT.HSS.MD.B.5:** Use probability to evaluate decisions.
- **All Grades – CCSS.MATH.PRACTICE.MP1:** Make sense of problems and persevere in solving them.