



Alignment of Oklahoma State Standards with Solve It!

STANDARD	DESCRIPTION	ALIGNMENT WITH <i>SOLVE IT!</i>
PROCESS STANDARD 1	Problem solving	<ul style="list-style-type: none"> • Reading (“understand a problem”) • Paraphrasing (“act out situations”; “use concrete, pictorial, oral...models”; “distinguish between necessary and irrelevant information in solving problems”) • Visualizing (“represent problems with drawings and lists”; “use concrete, pictorial, graphical... models”);) • Hypothesizing (“devise a plan”; “develop, test, and apply strategies to solve a variety of routine and nonroutine problems”) • Computing (“carry out the plan”) • Checking (“look back”; “verify the validity of each step taken to obtain a final result”) • Metacognition (“students explain verbally why an answer makes sense, explain in a written format why an answer makes sense”)
PROCESS STANDARD 2	Communication	<ul style="list-style-type: none"> • Paraphrasing (“express mathematical ideas coherently and clearly to peers, teachers, and others”) • Visualizing (“relate manipulatives, pictures, diagrams, and symbols to mathematical ideas”) • Practice with Peers (“extend mathematical knowledge by considering the thinking and strategies of others”) • Discussion of Solution Paths (“rephrase another student’s explanation, analyze another student’s explanation”)
PROCESS STANDARD 3	Reasoning	<ul style="list-style-type: none"> • Visualizing (“demonstrate thinking processes using a variety of age-appropriate materials and reasoning processes”) • Estimation (“make predictions and draw conclusions about mathematical ideas and concepts”)
PROCESS STANDARD 4	Connections	<ul style="list-style-type: none"> • Visualizing (“relate various concrete and pictorial models of concepts and procedures to one another”)
PROCESS STANDARD 5	Representation	<ul style="list-style-type: none"> • Visualizing (“create and use a variety of representations appropriately and with flexibility to organize, record, and communicate mathematical ideas”; “use representations to model and interpret physical, social, and mathematical situations”)

