Talent Goal Frame: STEM Aptitudes

Talent Aptitude	Content Standard Learning Objective	Performance of Understanding
1. Engagement in STEM Exhibits high interest in science, technology, engineering, or mathematics content; is enthusiastic, observant, and involved in STEM activities; is self-motivated to pursue STEM knowledge and skills.		
Talent-Targeted Teaching and Le	arning Goal:	
0 0	M by showing interest in science, tec for ways to become more involved in	0,, 0
Talent Aptitude	Content Standard Learning Objective	Performance of Understanding

Talent-Targeted Teaching and Learning Goal:

Student-Directed Talent Goal:

I conduct an *investigation* by asking questions that can be explained by systematically collecting, displaying, and interpreting data.

Talent Aptitude	Content Standard Learning Objective	Performance of Understanding
3. Problem Solving		
Identifies and frames problems; analyzes causes and effects to generate solutions; selects appropriate strategies and technologies; develops a plan of action; tests and verifies.		
Talent-Targeted Teaching and Le	earning Goal:	
Student-Directed Talent Goal:		
I use <i>problem solving</i> to identify powerify using appropriate tools and i	oblems, analyze cause and effect, a methods.	nd propose solutions to test and
	Content Standard	Performance of
Talent Aptitude	Learning Objective	Understanding

Talent Aptitude	Content Standard Learning Objective	Performance of Understanding
4. Spatial Reasoning Visualizes and interprets images; understands and remembers relationships among three-dimensional objects; mentally manipulates objects to solve problems.		

Talent-Targeted Teaching and Learning Goal:

Student-Directed Talent Goal:

I use *spatial reasoning* to visualize, remember, and understand relationships among three-dimensional objects.

Talent Aptitude	Content Standard Learning Objective	Performance of Understanding
5. Mathematical Reasoning		
Perceives patterns and relationships; quickly and accurately applies mathematical knowledge to solve problems; selects appropriate strategies; analyzes and evaluates results; proposes alternate solutions.		
Talent-Targeted Teaching and Le	earning Goal:	
Student-Directed Talent Goal:		
I use mathematical reasoning to remathematical knowledge to solve p	ecognize patterns in numbers or shap problems.	pes, determine the rules, and apply