

Scaffold for Learning

Benchmark Lessons

*What is a transformation?
Types of Transformations
Properties of translations, reflections and rotations
What is a translation?
What is a rotation?
What is a reflection?
How does one calculate transformations?
How can we illustrate movements in a coordinate plane?
What is a composition of movements and how do we illustrate them?
Using vectors to represent translations*

How-to Sheets

*Drawing Reflections, Rotations & Transformations
Classifying Transformations
Labeling diagrams
Create a transcription
Measuring rotations
Direction and magnitudes of rotations
Develop a lesson plan
Sketch dance steps and sports plays*

Learning Centers

*Exploring Transformations
Identifying the types of transformations
Constructing a composition of movements
Calculating measurements
Drawing translations, rotations & reflections*



Small-Group Instruction (Mini-Lessons)

*Introduction to unit
Constructing transformations
Measuring angles, degrees and direction of transformations
Lesson plan requirements
Drawing transformations in a coordinate plane*

Technology Assignments

*Exploration of Transformations
Web-based research
Creating lesson plans and multimedia presentations*

Peer Tutoring

*Checking calculations for accuracy
Proofreading presentation
Cross checking measurements
Following step-by-step transcriptions for accuracy
Classroom technology experts*

Individual Tasks

*Personalizing presentations
Develop dance and/or play movements for transcription
Transformations with calculations
Brief descriptions with appropriate vocabulary
Daily HW
Exploring Transformations Quiz
Unit Test
Self Evaluation*

Group Tasks

*Brainstorming dance steps and/or play by play for sports movements
Measuring calculations of all transformations
Creating a final presentation
Interactive constructions using website resources*