

Sample ESOL Lesson Plan

Subject:	Physical Science
Unit of Study:	Reactions and Properties of Matter
Topic of Lesson:	Homogeneous vs. Heterogenous Mixtures
Georgia Standards of Excellence	
SPS6	Obtain, evaluate, and communicate information to explain the properties of solutions.
Key Terms:	
Tier I & II (Academic and/or Interdisciplinary Terms):	Obtain, Evaluate, Communicate, Explain
Tier III (Unit Specific Terms):	Homogenous Mixture, Heterogenous Mixture

Lesson Preparation <i>(SIOP Example)</i>	
Content Objective:	Distinguish between homogeneous and heterogeneous mixtures.
Language Objective:	<p>SPEAKING: Orally explain at least two differences between homogeneous and heterogeneous mixtures to a partner using compare/contrast language.</p> <p>WRITING: Write the definitions of homogeneous and heterogeneous mixtures in my own words and give an example of each type.</p>

Opening - SIOP Component: Building Background and Interactions

What will students do when they walk into the classroom? (*Student & Teacher Moves*) Include in this section a detailed description of the opening activity.

Materials Needed:	<ul style="list-style-type: none">● Index cards● Chart paper
Activities for Links to Prior Experience / Learning / Culture:	<ul style="list-style-type: none">● Opening question / Bell Ringer - What is a mixture? Name a mixture you can eat and a mixture you can drink.<ul style="list-style-type: none">○ Allow students about 5 minutes to write the answer to the opening on an index card.○ Kagan Strategy - Mix-Pair-Share<ul style="list-style-type: none">■ Students will complete at least 2 rounds of Mix-Pair-Share■ Provide all students with SENTENCE STEMS with visuals to drive the academic conversation.○ As students are sharing, walk around the groups and take notes on students' ideas.○ Teacher - Use notes to create a graphic of students' responses
Activities for Key Vocabulary: (can include activities for Tier I and II words as needed)	<ul style="list-style-type: none">● Divide student responses into two groups - heterogeneous mixtures and homogeneous mixtures.<ul style="list-style-type: none">○ Provide all students with SENTENCE STEMS with visuals to drive the academic conversation.● DO NOT write the definition or give the definition to the students.● Have students to do a turn and talk to a partner about the difference between the two groups of mixtures.● Each pair of students will complete a 4 Corners Vocabulary Sheet for the homogeneous mixtures and heterogeneous mixtures.

Work Period - SIOP Component: Practice and Application

How will students work with the content objective and demonstrate the language objective? Include in this section any techniques for interactions, comprehensible input, scaffolding, and lesson delivery.

Materials Needed:

Each group of students will need the following:

- 50 mL of water
- 1 mL of fine white sand (available at Dollar Tree or via Amazon)
- 1 mL of salt
- 2 small beakers
- 2 stirrers

- Divide students into groups of 3-4.
- In groups, make a mixture of 25 ml water and 1 ml of Mystery Material A (fine white sand) and another mixture of the same amount of water and Mystery Material B (salt) in beakers.
- Stir them well. How are they the same? How are they different?
- Students are to observe patterns which will later allow for classification.
- One mixes so well you can't see the mystery material anymore (salt); the other mystery material didn't dissolve in the water (sand).
- Talk with your team members about which is a heterogeneous mixture/physical mixture (sand and water), and which is a homogeneous mixture/solution (salt and water). Write your thoughts on your lab sheet (communicate).

Closing - SIOP Component: Review and Assessment

How will you formatively assess students? Include in this section how you plan to close the lesson and assess mastery of the objectives.

Materials Needed:	<ul style="list-style-type: none">● Internet● Smartboard● Cell phones / iPads / laptops● Slips of paper
Activities for Review of Key Vocabulary and Concepts:	<ul style="list-style-type: none">● ESOL Physical Science - Homogeneous and Heterogeneous Mixtures - KaHoot!!
Activities for Assessment of Student Comprehension and Learning:	<ul style="list-style-type: none">● Ticket out the door<ul style="list-style-type: none">○ All EL students will write the definitions of homogeneous and heterogeneous mixtures in their own words and give an example of each type on a slip of paper.○ Differentiation: Lower level EL students may complete this task by drawing a picture.