

Discover, Create, and Explore

Science in the Language Classroom

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An inquiry based lesson or activity should require the students to complete specific tasks. The following is a guide for some tasks that mirror the type of scientific learning going on in the regular classroom. Use these ideas to create a response page or to guide a discussion in the target language in your classroom.

1. Start with a question:	_
2. Watch the demonstration	
3.Hypothesis - I think that	
4.Experiment	
5. Answer to question:	
6. Was your hypothesis correct?	
7.Draw what you observed.	

Science Activity Template

Topic:
Objectives: 1.
2.
Vocabulary connections Hands-on Activities or experiments: A.
B.
**Learning Song:

NSTA Position Statement:

Elementary School Science

The National Science Teachers Association supports the notion that inquiry science must be a basic in the daily curriculum of every elementary school student at every grade level. In the last decade, numerous reports have been published calling for reform in education. Each report has highlighted the importance of early experiences in science so that students develop problem-solving skills that empower them to participate in an increasingly scientific and technological world. The elementary science program must provide opportunities for students to develop understandings and skills necessary to function productively as problem-solvers in a scientific and technological world.

- Elementary school students learn science best when—
 - 1. they are involved in first-hand exploration and investigation and inquiry/process skills are nurtured.
 - 2. instruction builds directly on the student's conceptual framework.
 - 3. content is organized on the basis of broad conceptual themes common to all science disciplines.
 - 4. mathematics and communication skills are an integral part of science instruction.
- The learning environment for elementary science must foster positive attitudes towards self and society, as well as science.
- Elementary school students value science best when—
 - 1. a variety of presentation modes are used to accommodate different learning styles, and students are given opportunities to interact and share ideas with their peers.
 - 2. the scientific contributions of individuals from all ethnic origins are recognized and valued.
 - 3. other subject areas are infused into science.
 - 4. inquiry skills and positive attitudes are modeled by the teacher and others involved in the education process.

—Adopted by the Board of Directors July 2002

Excerpted from the National Science Education Standards (1996)

Center for Science, Mathematics, and Engineering Education (<u>CSMEE</u>)

TABLE 6.8. CONTENT STANDARDS, GRADES K-4

UNIFYING CONCEPTS AND PROCESSES	SCIENCE AS INQUIRY	PHYSICAL SCIENCE	LIFE SCIENCE
Systems, order, and organization	Abilities necessary to do scientific inquiry	Properties of objects and materials	Characteristics of organisms
Evidence, models, and explanation	Understandings about scientific inquiry	Position and motion of objects	Life cycles of organisms
Change, constancy, and measurement		Light, heat, electricity, and magnetism	n Organisms and environments
Evolution and equilibrium Form and function			

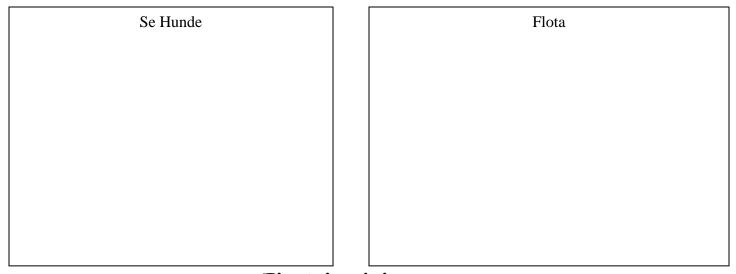
EARTH AND SPACE SCIENCE	SCIENCE AND TECHNOLOGY	SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES	HISTORY AND NATURE OF SCIENCE
Properties of earth materials	Abilities of technological design	Personal health	Science as a human endeavor
Objects in the sky	Understandings about science and technology	Characteristics and changes in populations	
Changes in earth and sky	Abilities to distinguish between natural objects and objects made by humans	Types of resources	
	·	Changes in environments	
		Science and technology in local challenges	



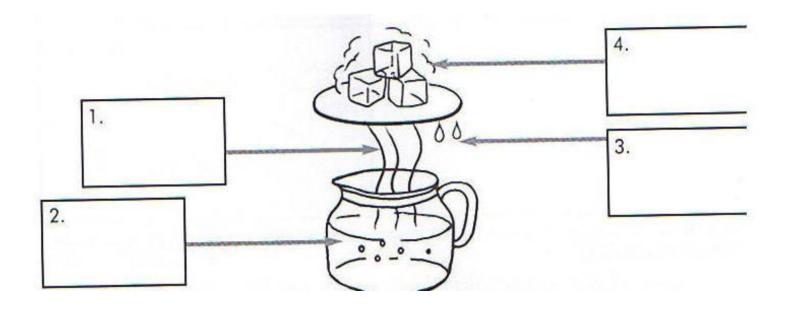


Today we talked about water. We learned about how it can change and that objects can float or sink in it. We did an experiment to learn more.

¿Se Hunde o Flota?



El ciclo del agua





Explorando el mundo de las ciencias

Tenemos preguntas y respuestas. Aquí hay un dibujo de las cosas en mi laboratorio.

	l a Enarcia	
Mi propia energía	La Energia viene de	





El olfato





El Gusto





El Tacto





La Vista





El Oido









Ideas Para Practicar en Casa

Los Cinco Sentidos

Today we reviewed the five senses and talked about "El Olfato" (smell). Students learned to say 'Yo huelo..." (I smell...) and experimented by guessing different objects by scent using our noses. We are continuing to work on our Cinco Sentidos journals which will go home on our last day. Here are some things you can try at home:

- Play a game. Ask your child to find things around the house or outside and say "huele mal" or "huele bien" (It smells bad / good.) Take turns guessing objects by their smells.
- Show your child that even your sense of taste "gusto" is affected by your sense of smell "olfato". Let them try tasting something while holding their nose. Hasta la proxima vez...



El Tiempo del Otoño

Dibuja y describe el tiempo cada día.

Hace viento – It is windy Hace frío – It is cold Hace sol – It is sunny Está lluvioso – It is rainy Hace calor – It is hot Está nublado – It is cloud

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