





Razvijanje strokovnih pismenosti v TJ

Gradiva projekta Obogateno učenje tujih jeziko Katja Pavlič Škerjanc, ZRSŠ







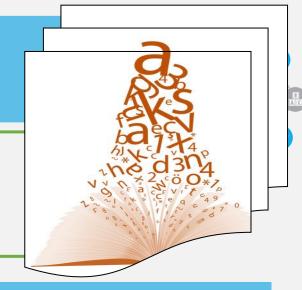


Učna / Strokovna pismenost v/pri TJ: NEKAJ UČNIH STRATEGIJ

- 1. Vključite razvijanje učne/strokovne pismenost v pouk TJ že na samem začetku.
- Izhajajte iz relevantnih (za učenca in kurikul) raziskovalnih vprašanj (→ ustvarjanje učne potrebe!) in uporabite projektni pristop.
- 3. Skrbno izberite besedilo (→ v *sodelovanju z učiteljem nejezikovnega/vsebinskega predmeta*) za razvijanje bralne zmožnosti.
- 4. Aktivirajte predhodno znanje učencev.
- 5. Razširiti besedišče, potrebno za razumevanje besedila.
- 6. Navežite na materinščino in spodbudite transfer iz J1 v TJ.

Učenje BESEDIŠČA jezika stroke

Strokovno besedišče poučujte na neposreden, ozaveščen način. V učenje besedišča vgradite ustrezen obseg urjenja.



- 1. Razvijajte **besedno zavedanje** (t.i. word awareness /consciousness).
- 2. V pouk vključite učenje strategij za učenje besedišča.
- 3. V pouk (T)J vpeljite **dnevne rutine**, ustne in pisne, povezane z učenjem besedišča (npr. hitra ponovitev itd.).
- 4. Učenje besedišča povežite z **vsebinami**, ki jih učenci obravnavajo **pri drugih predmetih**.
- 5. Uporabljate **vizualno** podporo.
- 6. Posebno pozornost namenite učenju večpomenskih besed.

FRAYERJEV MODEL: Kaj je?



- Frayerjev model je učna aktivnost, ki temelji na kategorizacji besed, namenjena razvijanju/poglabljanju razumevanja pojmov.
- Obstajata dve različici Frayerjevega modela:
 - 1. V prvi različici učenci oblikujejo <u>definicijo</u>, navedejo <u>značilnosti</u> in našteje nekaj <u>primerov</u>, kaj koncept JE in kaj koncept NI.
 - 2. V drugi različici učenci analizirajo <u>bistvene</u> in <u>nebistvene</u> <u>lastnosti</u> besede/koncepta in poglobijo (rafinirajo) svoje razumevanje <u>z navajanjem</u> <u>primerov v kategorijah JE in NI</u>.

http://www.tantasqua.org/superintendent/Profdevelopment/etfrayermodel.html

Recognize, label, and Use and interrelate models, generate examples diagrams, manipulatives, and nonexamples of and varied representations concepts. of concepts. Identify and apply Interpret the assumptions and principles relations involving concepts in mathematical settings Conceptual Understanding Know and apply facts and definitions Ability to reason Ability to manipulate ideas about the understanding of Compare, contrast, and integrate a concept in a variety of Recognize, interpret, and related concepts and principles, ways. apply the signs, symbols, and terms used to represent concepts:

The Frayer Model: HOW TO USE IT

Steps:

- 1. Assign a concept that might be confusing because of its relational qualities.
- 2. Explain the Frayer model diagram.
- 3. Model how to fill out the diagram.
- 4. Provide students with time to practice with assigned terms.
- 5. Once the diagram is complete, let students share their work with other students. Display students' diagrams as posters throughout the unit so students can refer to the words and continue to add ideas.

Definition (in own words)	Characteristics
(WO	RD)
Examples (from own life)	Non-Examples

Definition (in own words)	Characteristics	
A mathematical shape that is a closed plane figure	ClosedPlane figure	
bounded by 3 or more line segments	 More than 2 straight sides 	
	• 2-dimensional	
	Made of line segments	
POLYGON		
Examples	Non-Examples	
(from own life)		
 Pentagon 	Circle	
Hexagon	• Cone	
• Square	• Arrow	
Trapezoid	 Cylinder 	
• Rhombus		

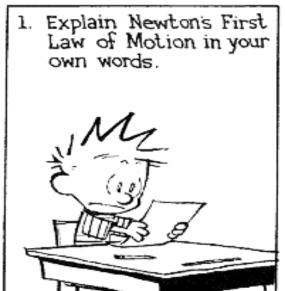
Definition (in own words)	Characteristics
The ideas, beliefs, and ways of doing things that a group of people who live in an area share.	 Shared ideas Shared beliefs Shared practices
CUL	TURE
Examples (from own life)	Non-Examples
 What my friends and I wear Music we listen to 	 Color of my hair Color of my eyes Nature Weather

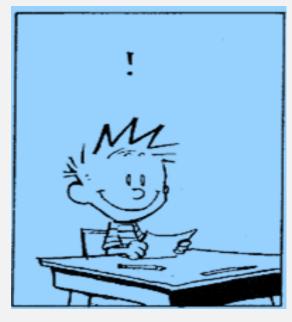
Essential characteristics	Non-essential charatcteristics
(1	word)
Examples	Non-Examples

Es	sential characteristics		Non-essential charatcteristics
•	Feathers		
•	Hollow bones		
•	Warm blooded	Al	bility to fly
•	Breathe air with lungs		, ,
•	Wings		
•	Beaks		
	BIF	DS	
Ex	amples		Non-Examples
•	Robins	Ва	ats
•	Meadowlarks	Fl	ying reptiles
•	Parrots	In	sects
•	Eagles	Fl	ying squirrels
•	Ostriches		
•	Penguins		

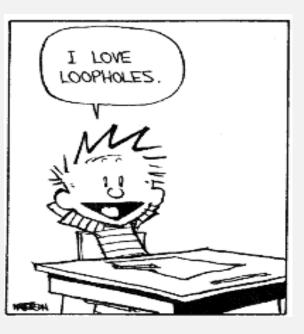
Razvijanje PREDMETNO SPECIFIČNEGA BESEDIŠČA - nevarnost poenostavljanja











Prim. Frayerjev model učenja/poučevanja strokovnega besedišča!

What RESEARCH tells us about vocabulary learning and teaching in content areas

- 1. Learning new words is a cumulative task that takes place gradually over time.
- 2. Words with multiple meanings are common in the content areas.
- Affixes and root words need to be taught.
- 4. Words need to be taught in relation to other words.
- 5. Productive vocabulary instruction must extend beyond word definitions.

Nagy & Scott, 2000

INSTRUCTIONAL FRAMEWORK



- Effective vocabulary instruction across subject-matter disciplines incorporates both broadly defined learning opportunities and explicit instruction in word-meaning acquisition.
- ☐ Broadly defined learning opportunities include the incorporation of wide reading in content classes as well as word consciousness.
- □ Explicit instruction: A structured lesson format using steps which are typically found in general lesson plan formats and also provide a framework for incorporating vocabulary.
- The steps include: (1) preparation, (2) explanation, (3) application, and (4) reinforcement (P.E.A.R.).

Step 1: PREPARATION

- In this step, teachers select the words to teach.
- These words and phrases should be those most critical to understanding the
 concepts in the passage or learning session and should be <u>limited in number</u>. Too
 many targeted words can be overwhelming to students, especially those who
 struggle with reading.
- This step also includes assessment of student background knowledge about the terms.
- One useful assessment tool is the **knowledge rating scale** (*Blachowicz & Fisher, 2006*):
- e.g. Content area: world geography

Word (or term)	I know this word (or term). It means	The word (or term) looks familiar.	I do not know this word (or term).	New information from the text
urban				
urbanization				
urban sprawl				

Step 2: EXPLANATION

- Once teachers have selected the vocabulary, the next step is to introduce the words and terms to the students using clearly understandable definitions—what Beck and her colleagues call student-friendly definitions (Beck, McKeown, & Kucan, 2002).
- For example, for the term <u>urban sprawl</u>, instead of the definition
- "the unplanned, uncontrolled spreading of urban development into areas adjoining the edge of a city," a more easily understood definition could be
- "a word that describes what happens when a city starts spreading farther and farther out into the area around it."
- These student-friendly definitions also need to be accompanied by supportive instructional contexts (*Graves, 2006*).
- In this case, the teacher can show students various photographs that depict urban sprawl.

Step 3: APPLICATION

- After discussing the word meanings, students can then apply the words and terms in meaningful activities. These activities are designed to move students' interaction with the words beyond the definitional level to higher levels of cognitive processing.
- The following **questions and prompts** require students to have a working knowledge of the words in order to provide reasonable answers (*Beck et al., 2002*):
 - **1. Meaningful-use prompts** (e.g. *Things you would expect to see in an urbanized area*)
 - **2. Statement completions** (e.g. *Urbanization creates major changes in the landscape of an area bec*ause . . .)
 - **3. Word associations** (e.g. Which word is used when talking about renovating old warehouses in inner cities?)
 - **4. Meaningful questions** (e.g. Would you expect to find textile mills in a megalopolis?)

Step 4: REINFORCEMENT

- In this last step, teachers review newly learned words and terms to help students internalize word meanings.
- Writing activities that are interesting can serve to reinforce vocabulary.
- For example, the **CUBING ACTIVITY** (*Bean, Readence, & Baldwin, 2008*) illustrated below requires students to **examine a concept from different dimensions**. Students demonstrate their understanding of a term by describing, comparing, associating, analyzing, applying, and arguing for or against it.
- E.g. *Term: Market economy*

Describe it.	Compare or contrast it.
Associate it.	Analyze it.
Apply it.	Argue for or against it.

The Cubing Activity: Market Economy

		• 1		• -
I)	DCC	۱۲۲	hΔ	it.
u	ころし	. I I I	J	IL.

A market economy is one type of economic system. An economic system is the way in which a country manages its money, materials, and labor.

A market economy allows the people to freely choose what to buy and sell.

Associate it.

I think a market economy allows people the opportunity to earn more money by opening their own businesses.

Apply it.

Every time I go shopping for a new video game, I can be grateful for the market economy in America. If it wouldn't be for this type of economy, I think the selection of games would not be as wide as it is at the stores.

Compare or contrast it.

A market economy is similar to capitalism and free enterprise.

A market economy is different from a planned or command economy in which the government decides what to buy and sell and at what price.

Analyze it.

There is competition in a market economy, and this can keep prices down.

The producers of goods and services listen to the wants and needs of the consumers.

Argue for or against it.

I support a market economy. It gives me many choices when I am looking for things, and it gives me the opportunity to open my own business if I like.

The R.A.F.T Strategy

- Another example of reinforcement is the R.A.F.T. activity (Santa, Haven, & Harrison, 2008).
- R.A.F.T. stands for role, audience, form, and topic.
- Students select one of the writing tasks, and they use newly learned vocabulary in the writing.
- **1.Role of the Writer**: Who are you as the writer? A movie star? The President? A plant?
- **2.Audience**: To whom are you writing? A senator? Yourself? A company?
- **3.Format**: In what format are you writing? A diary entry? A newspaper? A love letter?
- **4.Topic:** What are you writing about?

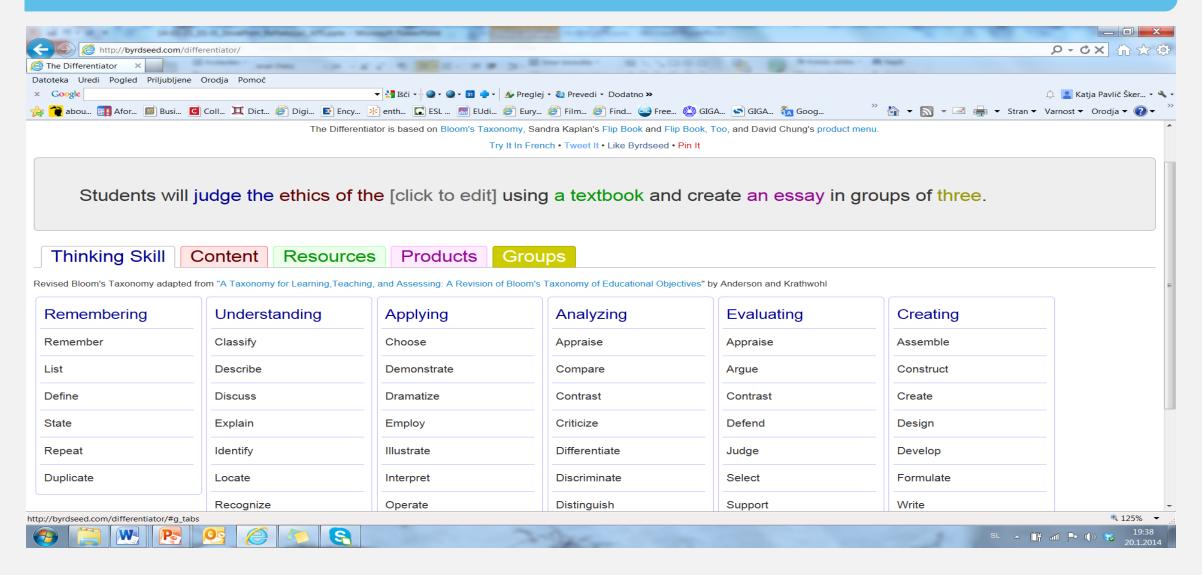
The R.A.F.T Strategy: World geography

Role	Audience	Format	Торіс
Naturalist John Muir	Lumber industry	Commercial	Conservation of natural resources
Meteorologist	People along the Texas Gulf Coast	Broadcast script for television	Approaching category 4 hurricane
Salmon	Grand Coulee Dam	Brochure	Difficulties caused by the dam
Director of the National Park Service	Outdoor enthusiasts	Page in a guidebook	3 most popular hiking trails in the United States
Tour director	People who like to go on tours	Internet website	7-day tour of western Canada
Lewis of Lewis and Clark	President Thomas Jefferson	Letter	Request for more money to continue the expedition to the south

Building Differentiated Learning Objectives With Web Tools: The DIFFERENTIATOR

- For some teachers, building differentiated learning objectives, lesson plans, and units comes naturally and is part of the fun of teaching. For others, it can be a real challenge. For either group, writing learning objectives can require a commitment of time. As schools increasingly emphasize the use of varied, differentiated learning objectives, a teacher's planning time can be stretched.
- For those wanting to save a bit of time or add a spark of creativity to their learning objectives, lan Byrd, a creative and energetic California teacher, has developed a clever Web application called The Differentiator
 (http://byrdseed.com/differentiator/).
- It is a free tool that allows you to use a Web interface to build learning objectives by choosing from a set of predefined thinking skills (1), content (2), resources (3), student products (4), and group sizes (5).
- For example, using lan's site, I created the following in a matter of seconds:
 - Students will <u>contrast</u> [\rightarrow thinking skill] <u>the multiple points of view of green</u> <u>energy</u> [\rightarrow content] using <u>newpapers</u> [\rightarrow resource] to create <u>a press conference</u> [\rightarrow product] in <u>groups of three</u> [\rightarrow group size].
- You may need to do a little additional editing after you build an objective.

Lesson Planning (Tool): The DIFFERENTIATOR



Model SIOP (Sheltered Instruction Observation Protocol): 8 komponent



- 1. Lesson Preparation
- 2. Building Background Knowledge
- 3. Comprehensible Input
- 4. Strategies
- 5. Interaction
- 6. Practice and Application
- 7. Lesson Delivery
- 8. Review and Assessment

- 1. Priprava na pouk
- 2. Ustvarjanje in priklic predznanja
- 3. Razumljivi vnos
- 4. Strategije
- 5. Interakcija
- 6. Urjenje in uporaba
- 7. Izvedba učne ure
- 8. Ponavljanje ter preverjanje in ocenjevanje

Model SIOP: PRIPRAVA NA POUK Output Description: Ou



- 1. Teachers write clearly defined content objectives. These objectives are reviewed at the <u>beginning</u> of a lesson and students should reflect at the <u>end</u> of the lesson whether the objectives have been met.
- 2. Teachers write clearly defined language objectives. They are introduced to the students at the <u>beginning</u> of a lesson and reviewed/reflected by the students at the <u>end</u> of the lesson.
- 3. Concepts taught should be appropriate for the age and educational background of students. Teachers must consider the students' L1 literacy, L2 proficiency, and the reading level of the materials.

Model SIOP: PRIPRAVA NA POUK 0

- **4. Supplementary materials** are used to promote comprehension. These include <u>charts</u>, <u>graphs</u>, <u>pictures</u>, <u>illustrations</u>, <u>realia</u>, <u>math</u> <u>manipulatives</u>, <u>multimedia</u>, and <u>demonstrations</u> by teacher and other students
- **5. Content** must be **adapted to ELL's needs** through use of <u>graphic</u> <u>organizers</u>, <u>outlines</u>, <u>labeling of pictures</u>, <u>study guides</u>, <u>adapted text</u>, and <u>highlighted text</u>.
- 6. Meaningful activities integrate lesson concepts with language practice opportunities in <u>listening</u>, <u>speaking</u>, <u>reading</u>, and <u>writing</u>.

LANGUAGE OBJECTIVES: The Key to Effective Content Area Instruction for English Learners



(Jennifer Himmel, 2012)

3rd grade Science, States of Matter			
Content Area Standard	Content Objective	Language Objective	
California: Students know that	Students will be able to	Students will be able to orally	
matter has three forms: solid,	distinguish between liquids,	describe characteristics of	
liquid, and gas.	solids, and gases and provide an	liquids, solids, and gases to a	
	example of each.	partner.	

Language Objectives: The Key to Effective Content Area Instruction for English Learners

π (S)....

(Jennifer Himmel, 2012)

4th grade Math, Two-Dimensional Figures			
Content Area Standard	Content Objective	Language Objective	
Common Core: Draw and	Students will be able to classify	Students will be able to read (&	
identify lines and angles, and	triangles based on their angles.	understand) descriptions of	
classify shapes by properties of		triangles and their angles.	
their lines and angles.			

Language Objectives: The Key to Effective Content Area Instruction for English Learners

T S

(Jennifer Himmel, 2012)

7th Social Studies, Colonial Communities			
Content Area Standard	Content Objective	Language Objective	
New York: Students will use a	Students will be able show how	Students will be able to	
variety of intellectual skills to	geographic features have	summarize in writing how	
demonstrate their	affected colonial life by creating a	geography impacted colonial life.	
understanding of the geography	map.		
of the interdependent world in			
which we live.			



9th grade English Language Arts, Informative/Explanatory Texts

Initinative/Explanatory Texts						
Content Area Standard	Content Objective	Language Objective				
Common Core: Write arguments	Students will be able to draft a	Students will be able to use				
to support claims in an analysis	conclusion paragraph for their	transitional phrases (e.g., as a				
of substantive topics or texts,	expository essay.	result) in writing.				
using valid reasoning and						
relevant and sufficient evidence.						
Provide a concluding statement						
or section that follows from and						
supports the argument						
presented.						

Bralne strategije za razvijanje splošne in predmetno specifične pismenosti



Generic Reading Strategies	Discipline-Specific Reading Strategies
Monitor comprehension	Build prior knowledge
Pre-read	Build specialized vocabulary
Set goals	Learn to deconstruct complex sentences
Think about what one already knows	Use knowledge of text structures and genres to predict main
Ask questions	and subordinate ideas
Make predictions	Map graphic (and mathematical) representations against
Test predictions against the text	explanations in the text
Re-read	Pose discipline relevant questions
Summarize	Compare claims and propositions across texts
	Use norms for reasoning within the discipline (i.e. what counts as evidence) to evaluate claims
	counts as evidence, to evaluate ciains
Vir: Carnegie Report 2010	

Model SIOP: PREDZNANJE 2 in VNOS 3

Building and Reviewing Background Knowledge

- **1.Concepts** should be directly **linked to students' background experience**. This experience can be personal, cultural or academic.
- 2.Links should be explicitly made between past learning and new concepts.
- **3.Key vocabulary** is emphasized. New vocabulary is presented in context. The number of vocabulary items is limited.

Comprehensible Input

- 1. Use **speech** that is appropriate for students' language proficiency.
- 2. Make the **explanation of the task** clear using step-by-step manner with visuals.
- 3. Use of a **variety of techniques** to make content concepts clear. Teachers need to focus attention selectively on the most important information. Introduce new learning in context. Help students learn strategies such as predicting, summarizing.



Model SIOP: STRATEGIJE 49



- 1. Provide **ample opportunities** for students **to use learning strategies**. Learning strategies should be taught through <u>explicit instruction</u>. You want students to develop independence in self-monitoring.
- 2. Consistent use of **scaffolding techniques** throughout the lesson. Introduce a new concept using <u>a lot of scaffolding</u> and <u>decrease support</u> as time goes on. Restate a student's response or use think-alouds.
- 3. Use of a variety of question types, including those that promote higher level thinking skills.

Model SIOP: INTERAKCIJA 6



Provide the following for the students:

- 1. frequent opportunities for interactions about lesson concepts which encourage higher level thinking skills;
- **2. grouping** which supports language and content objectives: <u>cooperative</u> groups, <u>buddies</u>, <u>pairs</u>, large and small groups;
- **3. ample wait time** for responses;
- 4. opportunities for clarification in mother tongue.

Model SIOP: URJENJE/UTRJEVANJE IN UPORABA 6 ter IZVEDBA URE 6



Practice and Application

Lessons should include:

- 1. hands-on materials or manipulatives for student practice;
- 2. activities for students to apply content and language knowledge in the classroom;
- 3. activities that **integrate all language skills**: listening, speaking, reading and writing.

Lesson Delivery

- Content objectives supported by lesson delivery.
- 2. Language objectives supported by lesson delivery.
- **3.** Students engaged 90% to 100% of the period.
- **4. Pacing of the lesson** appropriate to students' ability level.

Model SIOP: PONAVLJANJE TER PREVERJANJE IN OCENJEVANJE 8



The **Review and Assessment** component of the SIOP Model has the following elements:

- Comprehensive review of key vocabulary;
- Comprehensive review of key content concepts;
- Regular feedback to students on their output;
- Assessment of student <u>comprehension</u> and <u>learning</u> of all lesson objectives (e.g., spot checking, group response) throughout the lesson.