

The background is a solid light green color with a subtle pattern of butterfly silhouettes in a slightly darker shade of green. The butterflies are scattered across the page, some larger and more prominent than others.

Meaningful and Effective Chinese Vocabulary Learning

Peng, Ping

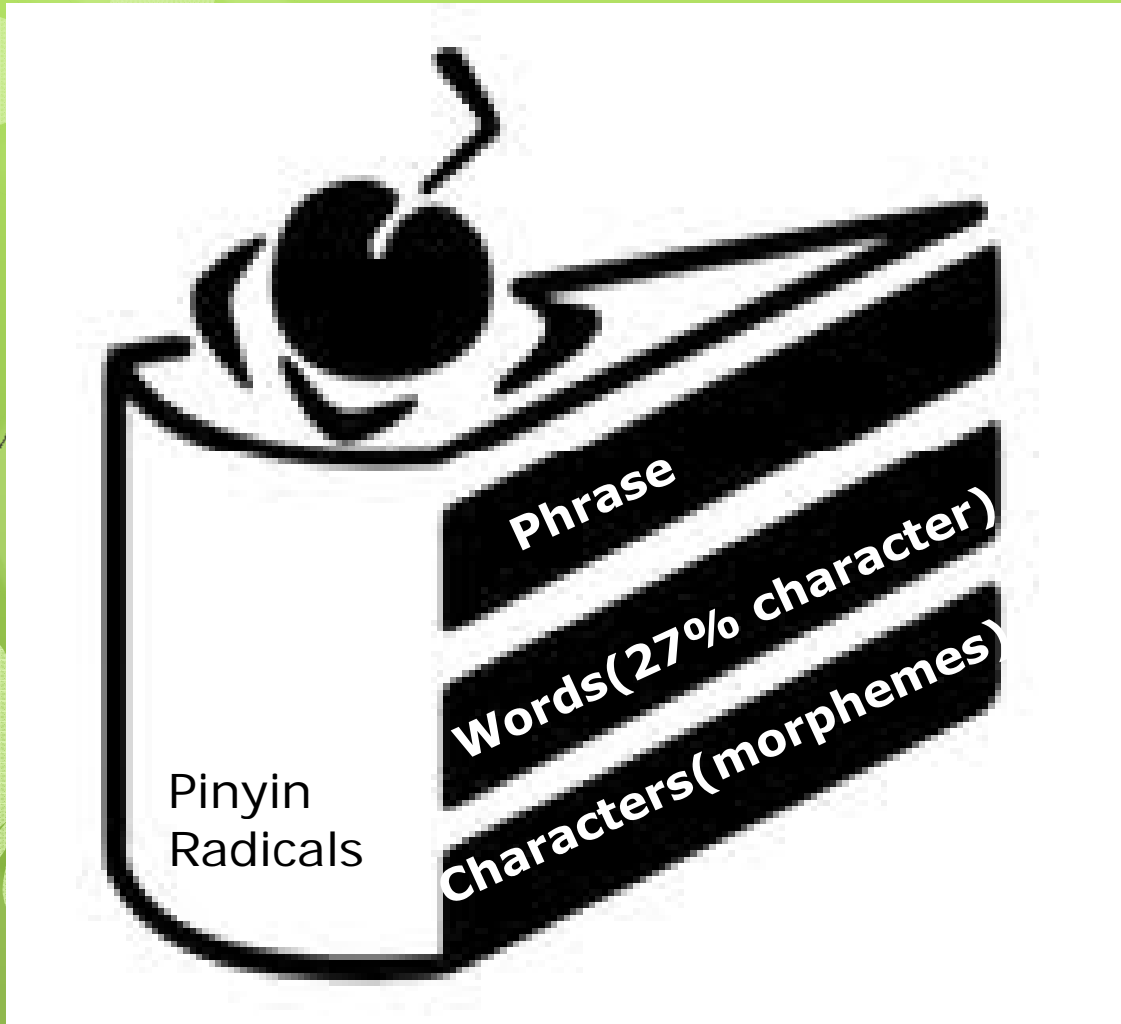
Zhao, Jing

Why Is Vocabulary Learning Important?

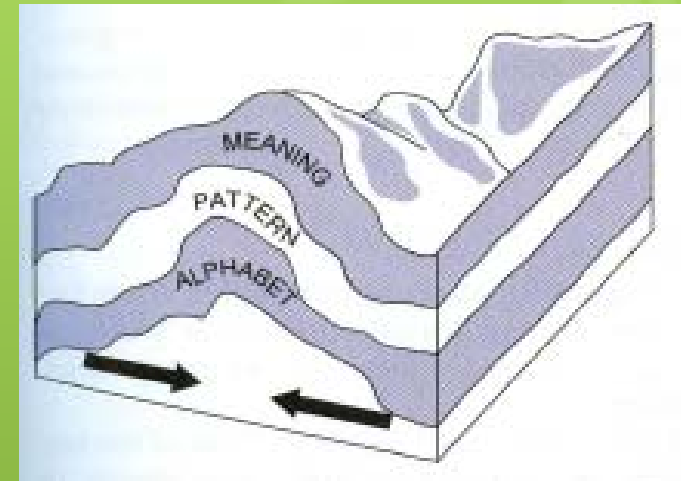


Why Is Chinese Vocabulary Learning Important?

- Cognitive process



The cognitive process for Chinese vocabulary learning

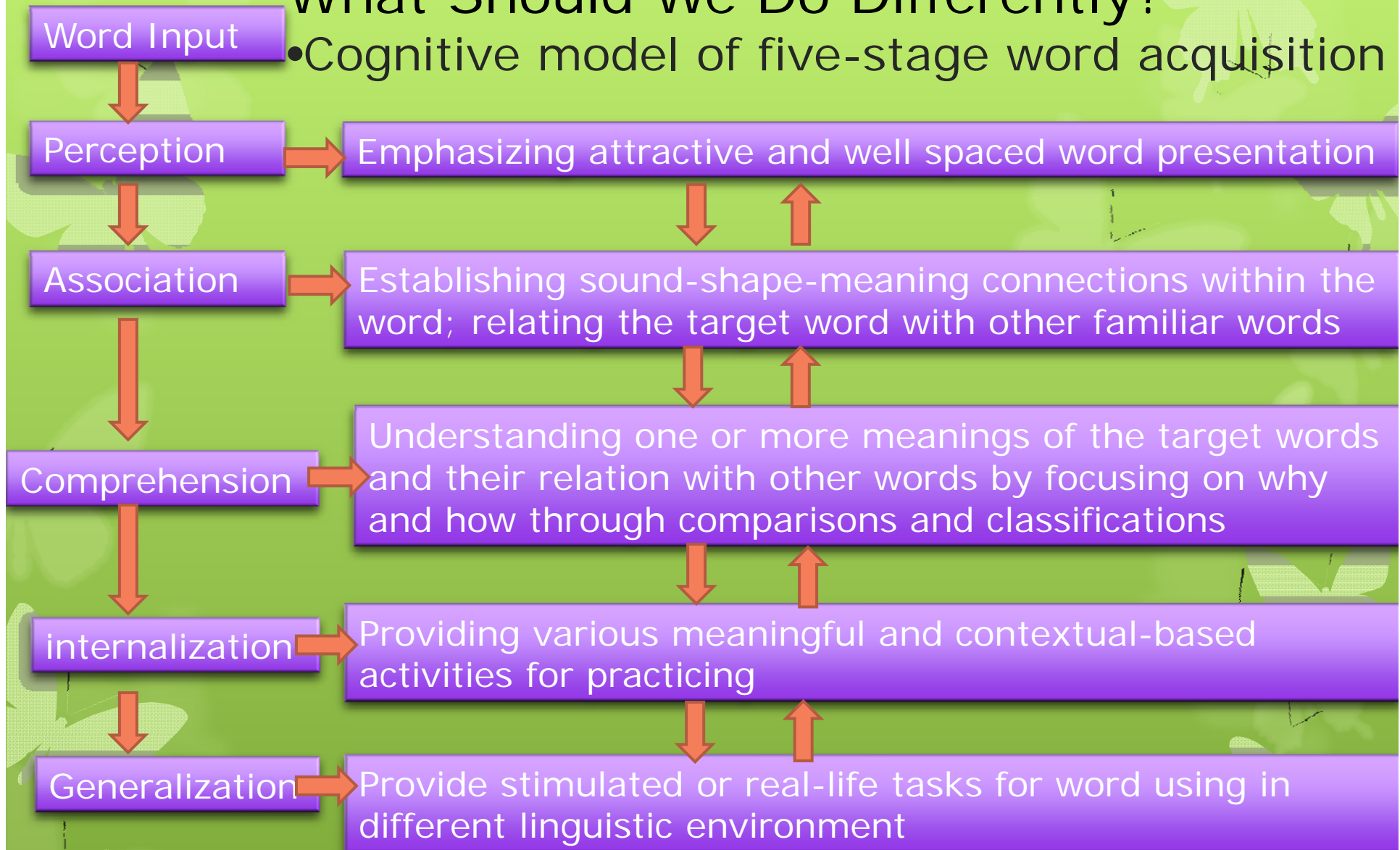


The cognitive process for English vocabulary learning

Bear, R.D & Invernizzi, M. (2004) *Words Their Way*

What Should We Do Differently?

- Cognitive model of five-stage word acquisition



The linguistic features of Chinese Script

汉文字的特性

No obvious sound to script correspondence

马 mǎ

The linguistic features of Chinese Script

汉文字的特性

Complexity of the graphic configuration.
The number of strokes in a given character
can vary from one to 36.

一 (yī)

龘 (nàng)

The linguistic features of Chinese Script

汉文字的特性

Character are equal spaced in the text
and provide no visual cues for word
segmentation

大 家 都 说 他 是 一 个 人 才。

Big family all say he is one individual person talent

People all say (that) he is (a) talented (person).

大家 (everybody)
person)

个人 (individual)

人才 (talented
person)

The decision about how to group characters into different words is based on the semantic information derived from the context.

Why Is Chinese Vocabulary Learning Important?

- Linguistic Feature

	Chinese	English
1.	No	Sound to spelling corresponding
2.	Meaning - shape connection	No
3.	Distinguished four tones + natural non-tone	No
4.	Characters are free morphemes	Bound morpheme
5.	No	Clear word boundary
6.	Logographic writing (multiple strokes and configuration)	Alphabetic writing (simple strokes and no configuration)

What do these mean for learning Chinese vocabulary?

Students are facing some unique challenges in learning Chinese characters:

- Cognitive restructuring **认知结构重组**
- Negative transfer from L1 **第一语言负迁移**

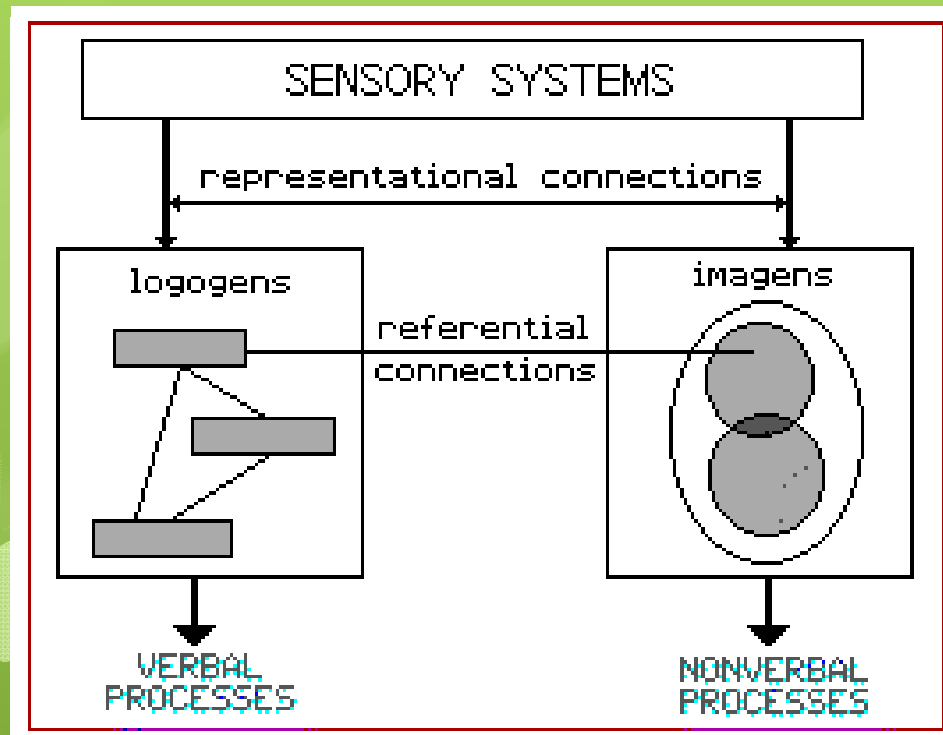
What Should We Do Differently?

Cognitive theories

- Dual coding theory
- Level-of processing theory
- Multi-system account theory
- Competition theory
- Cognitive load theory

What Should We Do Differently?

- Cognitive theories
 - Dual Coding Theory (A. Paivio)
 - Overview



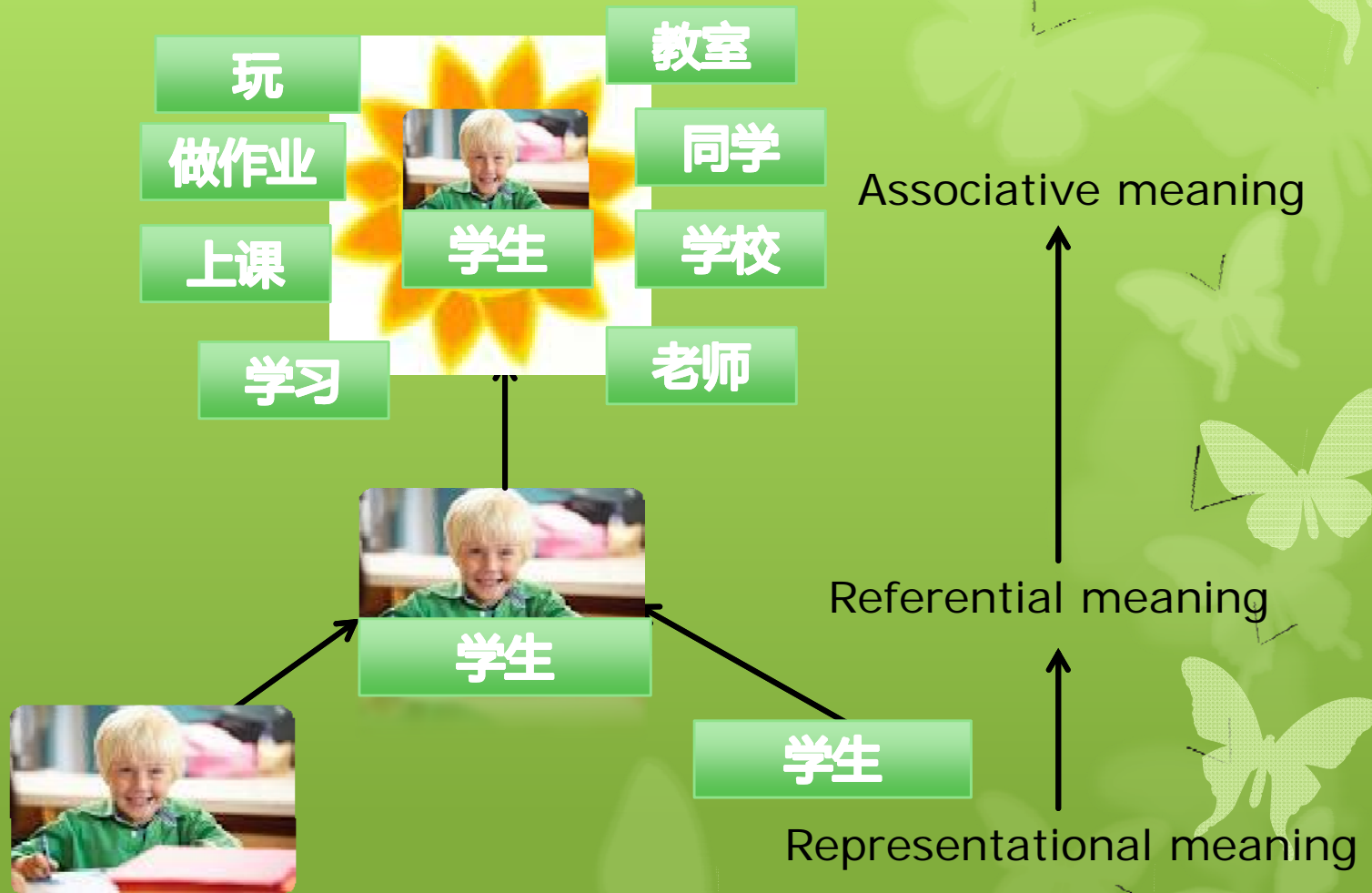
Associative meaning

Referential meaning

Representational meaning

What Should We Do Differently?

- Cognitive theories
 - Dual Coding Theory (A. Paivio)
 - Example



What Should We Do Differently?

- Cognitive theories
 - Dual Coding Theory (A. Paivio)
 - Pedagogical implication

Amount of Vocabulary	Vocabulary ≤ 500	Vocabulary > 500
Pedagogical implication	Representational meaning Referential meaning Teachers should show students both words with their corresponding pictures.	Referential meaning Associative meaning Teachers should help students activate prior knowledge.

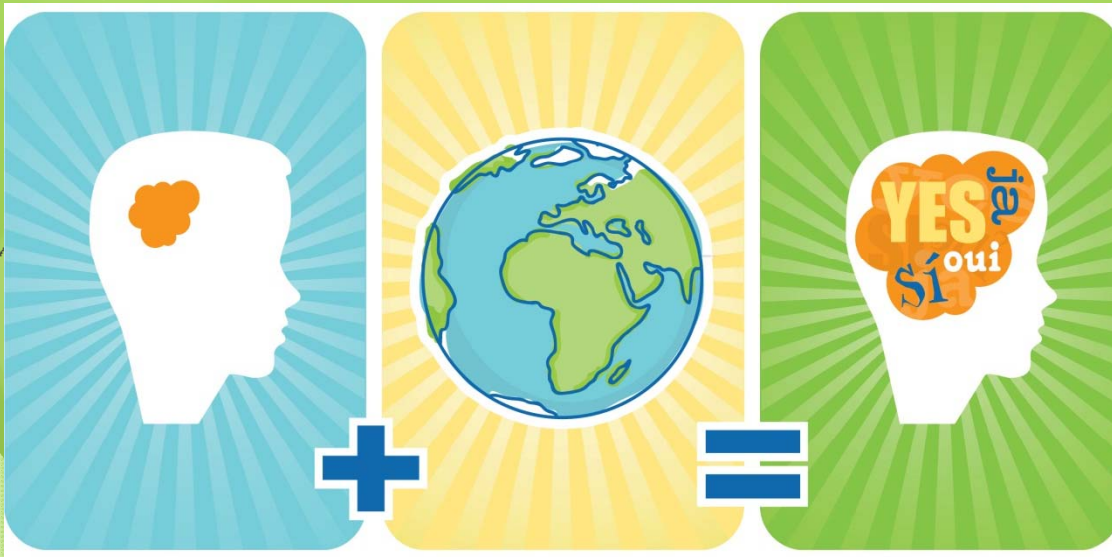
What Should We Do Differently?

- Cognitive theories
 - Dual Coding Theory (A. Paivio)
 - Pedagogical implication

Amount of Vocabulary	Vocabulary ≤ 500	Vocabulary > 500
Activities & Examples	Picture Teller (看图解字) Memory Matching (记忆配对) Find the Difference (找异类词)	Words in the character(字中字) Vocabulary tree(集思广益) Seeing Relations (部分与全体)

What Should We Do Differently?

- Cognitive theories
 - Level-of-processing theory(Craik & Lockhart)
 - Overview



Shallow lever



Intermediate lever



Deep lever

What Should We Do Differently?

- Cognitive theories
 - Level-of-processing theory(Craik & Lockhart)
 - Example

经济

浅度加工

经济就是一切与生产、分配、流通和消费有关的活动。

中度加工

例如：我们可以把经济和其它词语和起来用。经济学家、经济原理、经济作物、市场经济、发展经济

深度加工

例如：经济和我们的生活有什么关系？

Shallow lever



Intermediate lever



Deep lever

Shallow lever

Deep lever

Encode the written word "economics" (the subject can analyze it at various levels of processing)

What Should We Do Differently?

- Cognitive theories
 - Level-of-processing theory(Craik & Lockhart)
 - Pedagogical implication

Amount of Vocabulary	Vocabulary ≤ 500	Vocabulary > 500
Pedagogical implication	Provide etymological and orthographic information for new characters.	Increase elaboration and effort level of encoding.

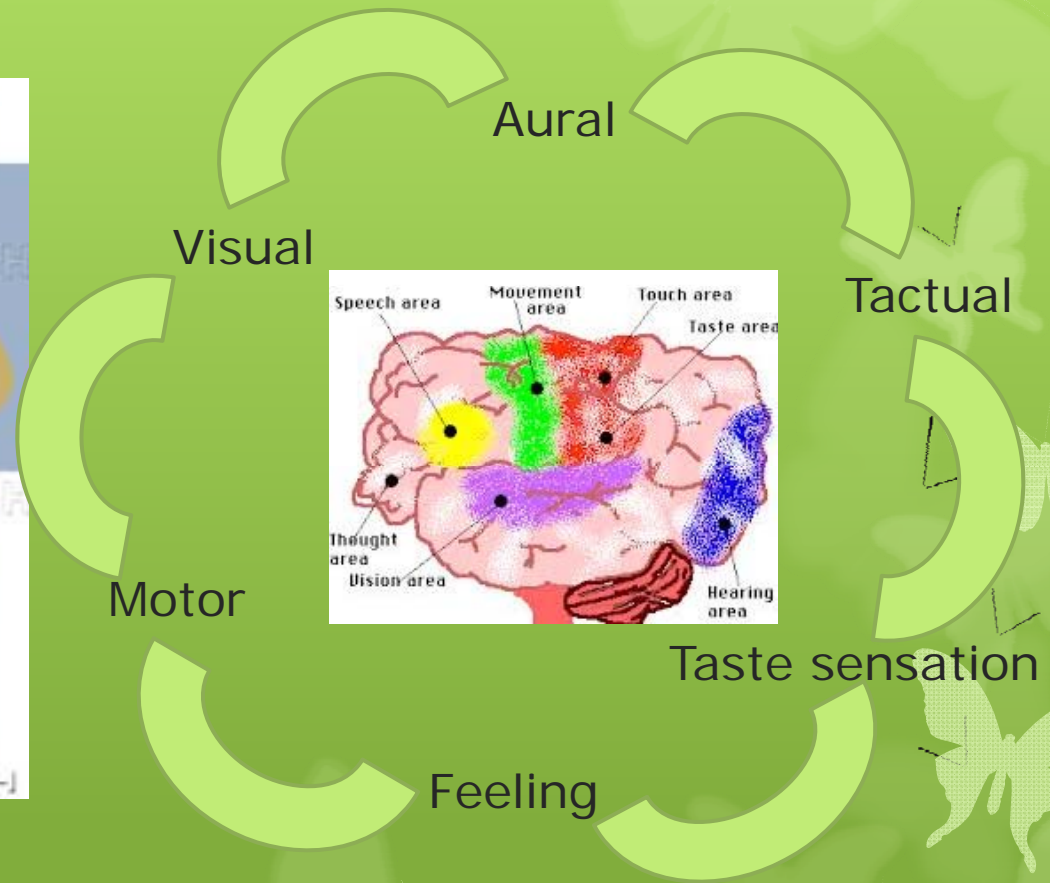
What Should We Do Differently?

- Cognitive theories
 - Level-of-processing theory(Craik & Lockhart)
 - Pedagogical implication

Amount of Vocabulary	Vocabulary ≤ 500	Vocabulary > 500
Activity & Example	Connections (大有关系) Find a Partner (找伙伴) Sentence Pyramid (金字塔造句)	Sense the difference (另类异项) Illustration of Differing Meanings (画图释义) Palingram (倒顺词/回文) Task based vocabulary instruction (词语串讲)

What Should We Do Differently?

- Cognitive theories
 - Multisystem account (Engelkamp)
 - Overview



What Should We Do Differently?

- Cognitive theories
 - Multisystem account (Engelkamp)
 - Example

汉字的动画



What Should We Do Differently?

- Cognitive theories
 - Multisystem account (Engelkamp)
 - Pedagogical implication

Amount of Vocabulary	No requirement
Pedagogical implication	Songs, rhymes, chants, and musical activities Games-a natural way

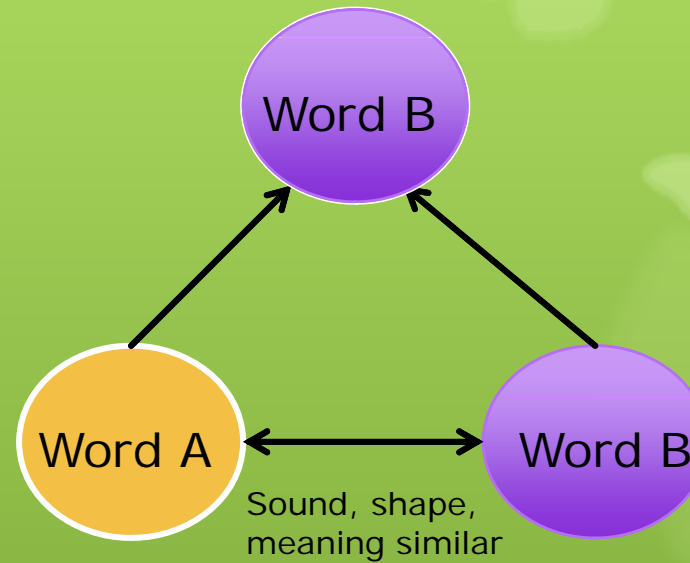
What Should We Do Differently?

- Cognitive theories
 - Multisystem account (Engelkamp)
 - Pedagogical implication

Amount of Vocabulary	No requirement
Activity & Example	Musical vocabulary chair (音乐椅子) Charades (哑剧字谜) Fly paper airplanes (飞向目标) Magic Box (魔术箱) Rainbow character (彩虹字)

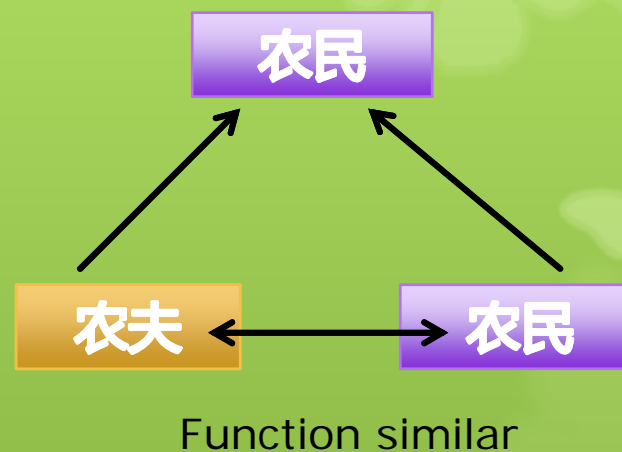
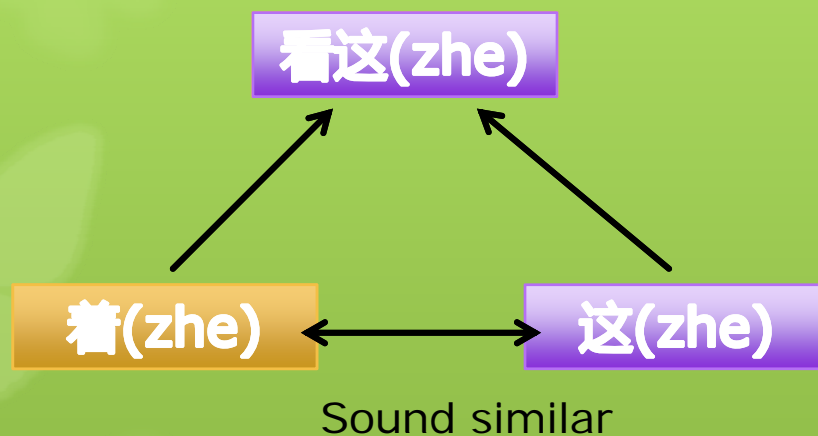
What Should We Do Differently?

- Cognitive theories
 - Competition theory(MacWhinney)
 - Overview



What Should We Do Differently?

- Cognitive theories
 - Multisystem account (Engelkamp)
 - Example





(一) 圈一圈

1. 叔叔住在中巴鲁的(且 粗 (组) 屋区。
2. 这里附(欣 (近) 所)是不是有一间茶馆?
3. 妈妈煮了((凉) 凉 良)茶给我们喝。
4. 你会(加 (驾) 架)汽车还是电单车?
5. 这(止 此 (些))飞机模型是爷爷送给我的。

What Should We Do Differently?

- Cognitive theories
 - Competition theory(MacWhinney)
 - Pedagogical implication

Amount of Vocabulary	Vocabulary ≤ 500	Vocabulary > 500
Pedagogical implication	Utilize multiple codes for encoding	Pay attention to comparison and contrast Schedule systematic review

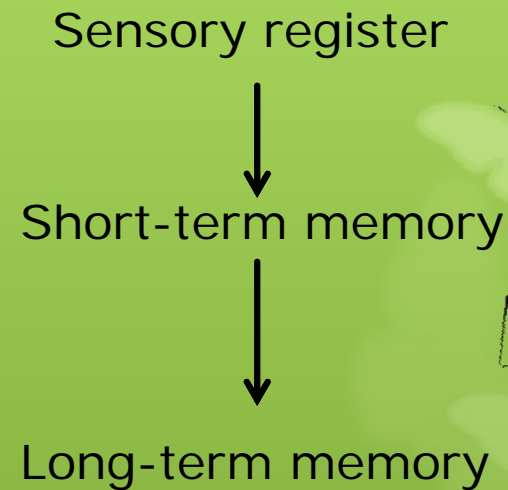
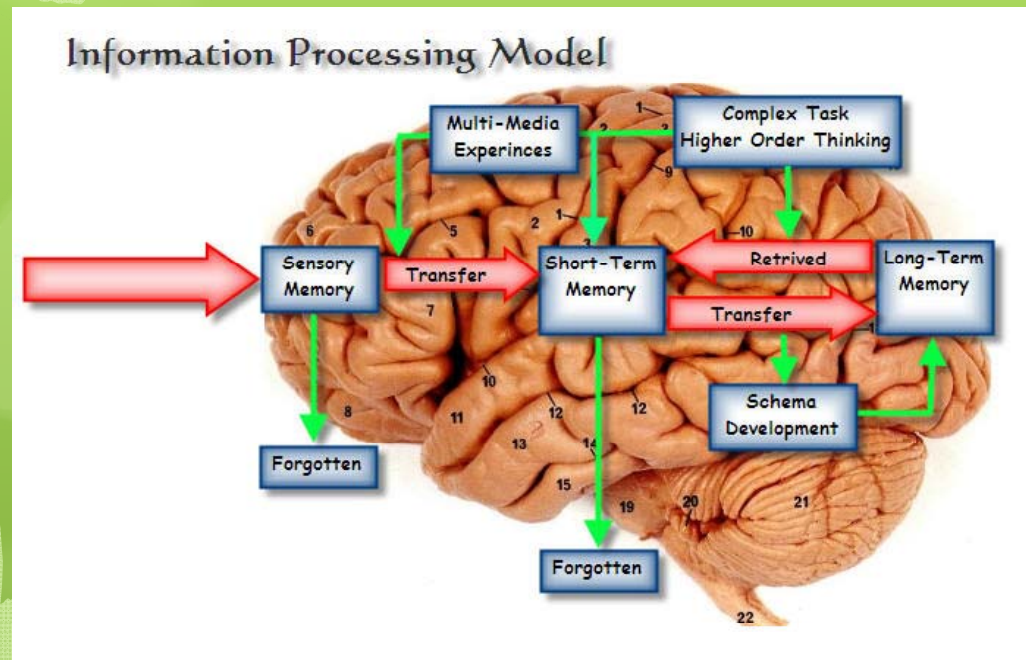
What Should We Do Differently?

- Cognitive theories
 - Competition theory(MacWhinney)
 - Pedagogical implication

Amount of Vocabulary	Vocabulary ≤ 500	Vocabulary > 500
Activity & Example	Find the right one (字形辨析) Compare the vocabulary (对比认字)	Correct the errors (找错误) Completing the character (找/写另一半)

What Should We Do Differently?

- Cognitive theories
 - Cognitive load theory (Sweller)
 - Overview



What Should We Do Differently?

- Cognitive theories
 - Cognitive load theory (Sweller)
 - Example

年糕

肉干

年货

舞龙舞狮

Sensory register

贺卡

桔子

红包

烟花

Short-term memory

Long-term memory



What Should We Do Differently?

- Cognitive theories
 - Cognitive load theory (Sweller)
 - Example

年糕



肉干



年货



舞龙舞狮



贺卡



桔子



红包



烟花



Sensory register



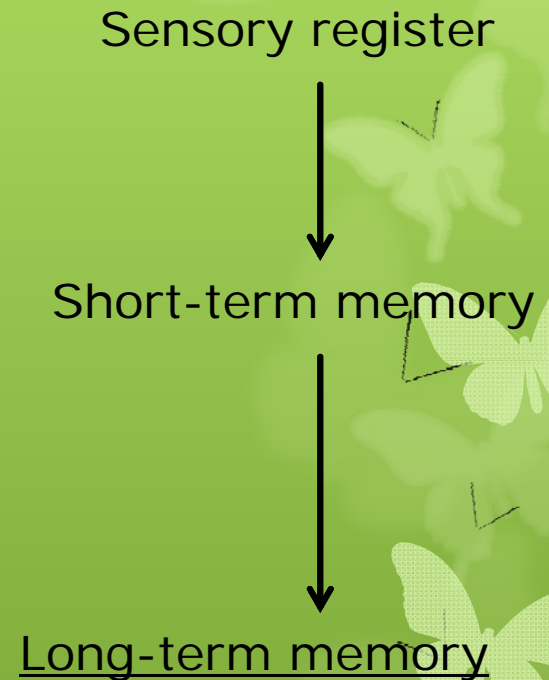
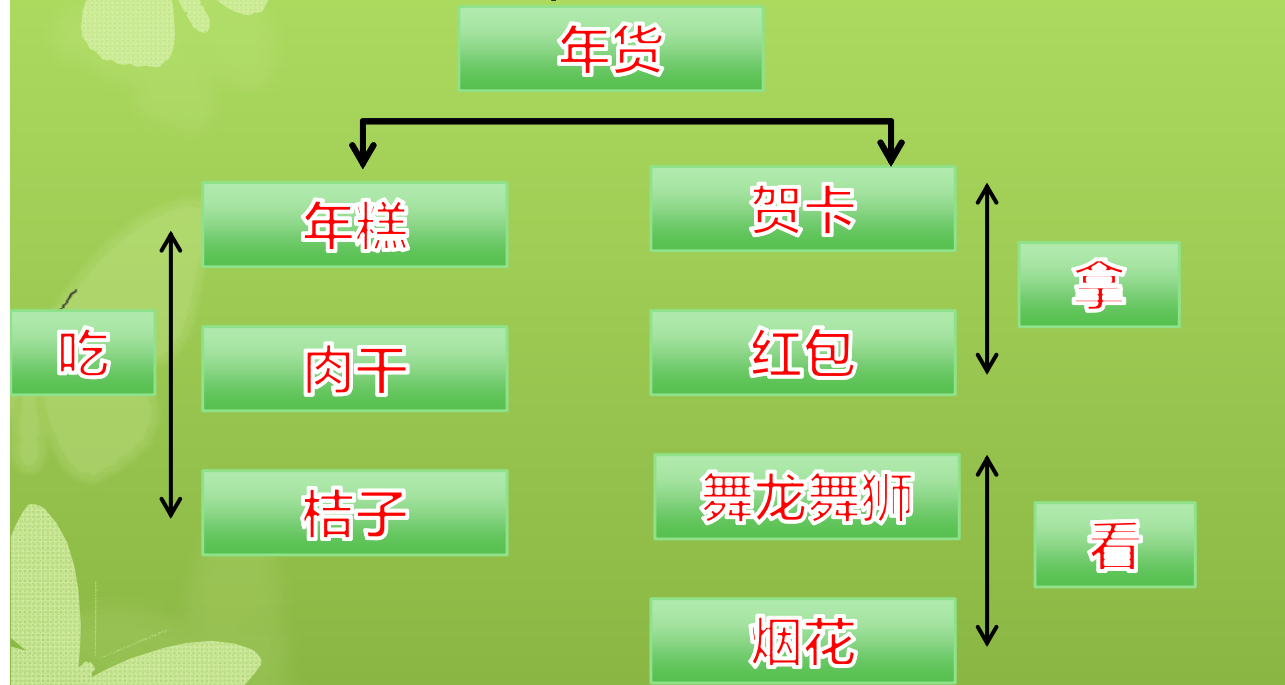
Short-term memory



Long-term memory

What Should We Do Differently?

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请你用其中的5个词语写一个新年故事。

What Should We Do Differently?

- Cognitive theories
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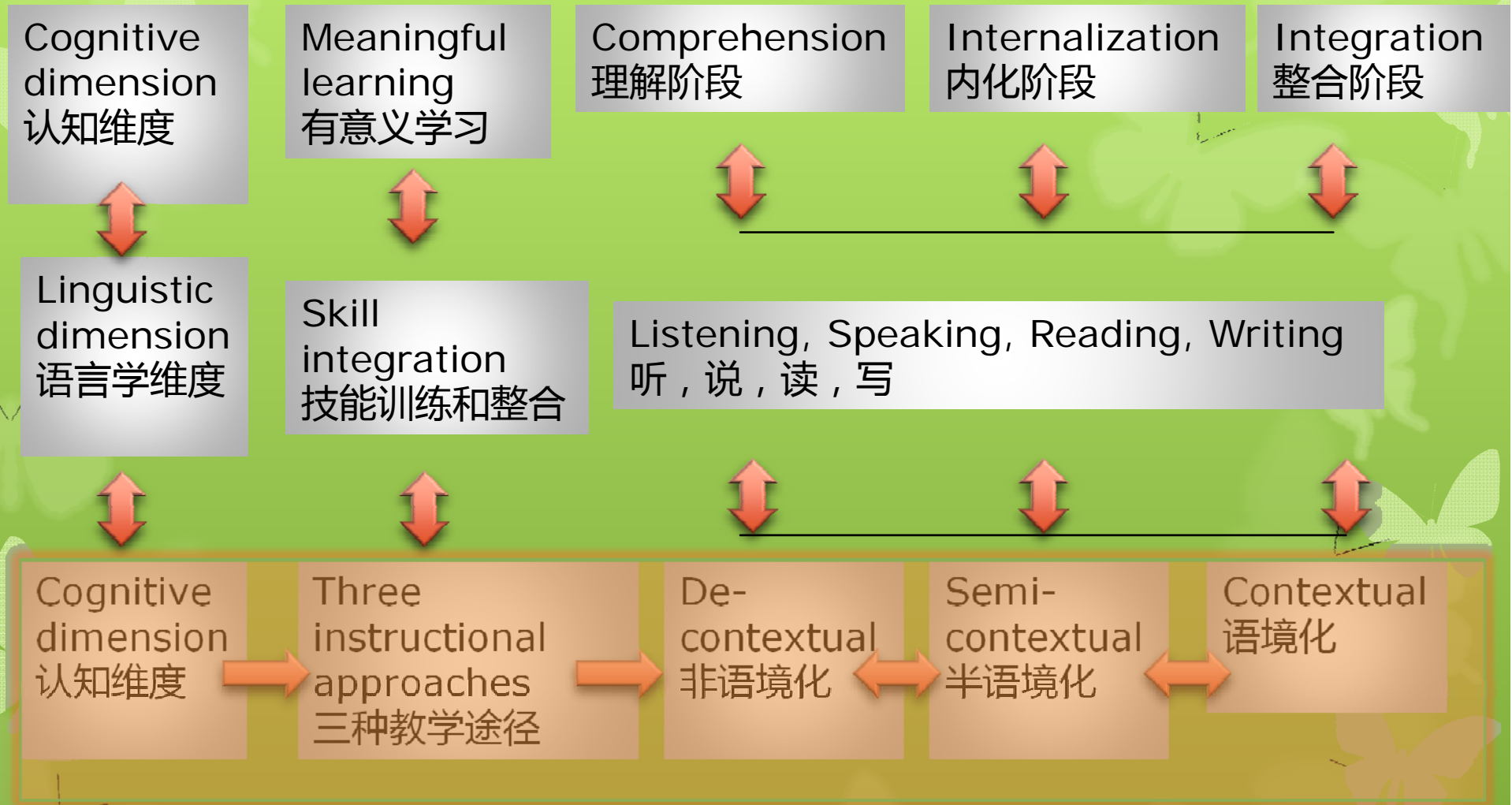
Amount of Vocabulary	Vocabulary ≤ 500	Vocabulary > 500
Pedagogical implication	Sensory register Short-term memory *Long-term memory Give appropriate learning material to students (intrinsic cognitive load). Control the appropriate extraneous load. Comprehensible input.	Sensory register Short-term memory Long-term memory Identify big idea, enduring understanding, and essential questions. Plan lessons and use well-designed instructional procedures and meaningful activities.

What Should We Do Differently?

- Cognitive theories
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 - Pedagogical implication

Amount of Vocabulary	Vocabulary ≤ 500	Vocabulary > 500
Activities & Examples	TPR TPRS (借助语境理解词语)	Graphic Organizer (图表)

A Framework for Chinese Vocabulary Learning



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Thanks for your time!
Any questions? 😊