**OPEN ENDED QUESTIONS**- Questions that have more than one right answer or ones that can be answered in many ways, are called open-ended questions. This way of asking questions stimulates more language use, acknowledges that there can be many solutions to one problem, affirms children's ideas, and encourages creative thinking.

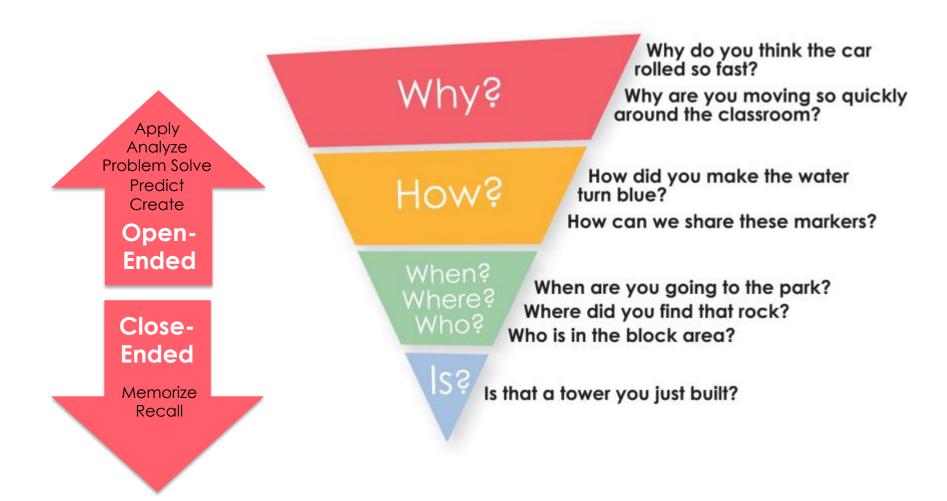


- What does this make you think of?
- In what ways are these different?
- In what ways are they the same?
- What materials did you use?
- What would happen if...?
- What might you try instead?
- Tell me about your...
- What does it look like?
- What does it remind you of?
- What does it feel like?
- What can you do next time?
- What can you tell me about it?
- Tell me what happened.
- What could you have done instead?
- Which one do you have more of?
- Is one object longer/shorter than the other?
- What do you call the things you are using?
- Tell me what it looks like.
- How are you going to do that?
- What do you feel, see, hear, taste, and smell?
- How did you do that?
- Is there anything else you could do/use?
- What will you do next after you finish that?
- How do you know?
- What are some different things you could do?
- What is made of?
- Show me what you could do with it.

These open-ended questions can be written on sentence strips and place up high on the wall of the room or the list can be placed on a clipboard in an interest area as a quick reference for adults who are working with children.

- ¿En qué te hace pensar esto?
- ¿En qué maneras son estas diferentes?
- ¿En qué maneras son estas iguales?
- ¿Qué materiales usaste?
- ¿Qué pasaría si…?
- ¿Qué podrías intentar en vez de…?
- Dime acerca de...
- ¿A qué se parecía?
- ¿A qué te recuerda?
- Como se siente?
- ¿Qué puedes hacer la próxima vez?
- ¿Qué me puedes decir de esto?
- ¿Dime qué pasó?
- ¿Qué podrías hacer en vez de…?
- ¿De cual tienes mas?
- ¿Es un objeto mas largo/corto que los otros?
- ¿Cómo se llaman las cosas que estas usando?
- Dime a qué se parece?
- ¿Cómo vas hacer eso?
- ¿Qué es los que sientes/ves/escuchas/pruebas o hueles?
- ¿Cómo lo hiciste?
- ¿Hay otra cosa que puedes hacer/usar?
- ¿Qué vas hacer después de termines esto?
- ¿Cómo sabes?
- Cuáles son las diferentes cosas que tu podrías hacer?
- ¿De qué esta hecho?
- Enséñame lo que puedes hacer con eso.

# **Asking Children Questions**



# TIPS FOR TEACHERS DUAL LANGUAGE LEARNERS

#### LANGUAGE MODELING AND CONVERSATIONS

- Encourage families to support the child to continue to develop the home language. Explain how learning the home language supports a child's English language acquisition.
- Use one language at a time (while code switching is a normal part of bilingual development, teachers should model one language at a time during instructional activities).
- Use children's language cues (what they say and what they seem to understand) as well as conversations with their families to understand the child's language needs in each language.



• Expect that children's language needs will likely be different in each of their languages.

## **Extended Conversations** (multiple back-and-forth exchanges)

- Adjust your language level to match a child's cues, with the goal of sustaining and extending the interaction.
- Use your knowledge of the child's interests and experiences to guide your conversations.

## **Asking Questions**

- Adjust your questions and responses to match a child's cues.
- Based on the child's language cues, use questions that require longer answers ("why" or "how") or questions that require shorter answers ("when," "where," or "who").

#### **Expansions**

- Use visual props and gestures when you repeat what a child says, and add new words.
- Repeat what a child says in a slightly more complex form.

#### **Novel Words**

- Use pictures or real objects when you introduce new words.
- Repeat new words often, with their synonyms and definitions.



#### WAYS TO ASK CHILDREN QUESTIONS

Asking questions is an important way to extend conversations with children in the classroom. The first column below contains four strategies for extending conversations with questions. The second column provides examples for each strategy.

Ask children about what they are doing.	<ul> <li>What are you working on?</li> <li>You are working very hard, tell me about your project.</li> <li>What are your plans for those materials?</li> </ul>
Ask children to provide explanations.	<ul> <li>Why do you think that happened?</li> <li>How can I help you solve this problem?</li> <li>I am wondering, how did you do that?</li> </ul>
Ask children to make predictions.	<ul> <li>What do you think will happen next?</li> <li>What could we use this container for?</li> <li>What would you do if that were you?</li> </ul>
Ask children to connect learning to their own lives.	<ul> <li>What do you think about?</li> <li>How did you do that before?</li> <li>What does this remind you of?</li> </ul>



# Revisiting Bloom's taxonomy: Asking better OUGSTIONS by Laverne Warner

by Encerne warner

"A fter reading about literacy development in children, I decided to learn how to ask better questions in my classroom," says Freda. "But I don't know where to start."

"Ever heard of Bloom's Taxonomy?" asks Joan.
"I learned about it in one of my education classes in college," she continues. "Ask your director, or Google™ it on the Web."

## What is Bloom's Taxonomy?

Bloom's Taxonomy is a set of question-asking strategies, starting at the simplest rote level and ending at the highest evaluation level. It was developed by Benjamin Bloom, an education professor at the University of Chicago, in the 1950s.

He had observed teachers using similar types of questions over and over in their classrooms. He thought their questions were mundane and children were expected to give the "right" answer. He thought teachers needed to ask questions that would enhance children's thinking abilities and broaden their perspectives of their environments. When children move to higher-order thinking, their responses are more creative and show greater depth of learning.

Bloom (1956) identified six levels of thinking and called them a "taxonomy," which simply means a system of classification. The six levels form a hierarchy, from lowest to highest. Each higher level requires all the thinking levels needed at the lower ones.

After he published the taxonomy, it gained acceptance as a model for improving questions in the classroom.

#### What are the six levels?

Knowledge of content forms the basis of Bloom's Taxonomy, no matter where the question appears on the hierarchy. Below are the levels, with a brief explanation:

- 1. **knowledge** (or rote)—remembering basic information.
- 2. **comprehension**—understanding the basic information, being able to phrase it in one's own words.
- 3. **application**—using the information in a concrete way to solve a problem or complete a task.
- 4. **analysis**—breaking apart the information, sorting out facts, and drawing conclusions.
- 5. **synthesis**—putting together knowledge in novel, creative ways.
- 6. **evaluation**—judging content based on standards, which may be set by the learner or the teacher.

Bloom believed that the memory, comprehension, and application levels were lower-order questions. In his view, higher-order questions began with the analysis level and included synthesis and evaluation because they required children to do more intense thinking.

But more recently, another educator (Popham 2002) has proposed that any question beyond the knowledge level encourages children to do higher-order thinking. In other words, knowledge questions are at the rote level and require that children give the correct answer. According to Popham, all other questions are open, requiring children to show their understanding of knowledge through responses that indicate they are developing critical thinking skills.



#### Taking a closer look

Knowledge acquisition is essential to the development of thinking skills. All thinking is based on content knowledge. Because the knowledge-level question is the simplest, teachers can use it to find out what children know.

**Knowledge:** Answers come from *rote memory*. Examples:

- What is the color of this apple (holding up an apple)?
- Where do apples grow?
- What is the name of this animal (while holding up a picture)?
- What is your address?

If a teacher holds up an orange and asks, "What is this?" an accurate response shows that a child has an understanding of oranges. If a child answers incorrectly, the teacher needs to provide the information and give the child some experiences with oranges for a basic concept to be formed.

## WHERE DO APPLES GROW?

**Comprehension:** Answers indicate *how* the knowledge is known or *how much* understanding exists about the topic.

Examples:

- If six children are eating snack, how many napkins do they need?
- It's daytime right now. How do we know it's daytime?

- Name some animals that could be pets.
- Tell me everything you know about the American flag.

Just knowing that the American flag is a flag shows that a child can identify or name the object. To determine how much information children have about the topic of flags, the teacher will need to ask the question in a way that children can elaborate on their knowledge. For example, the teacher could ask, "What do you know about the American flag?" Or she could ask, "Name another country that has a flag. Do all countries have flags?"

**Application:** Answers *demonstrate* the information; that is, a child develops a product or performs. Examples:

- Show me how a grasshopper moves in the grass.
- Draw a picture showing what you remember about the story.
- Use your manipulatives to show how much two plus three is.
- Pretend to be your favorite character in the story of *Goldilocks and the Three Bears*.

At the application level, children will show their knowledge with a product of some sort. Examples include drawing a picture, doing a skit, moving in some fashion, building a construction, or performing an action or skill to show what they know. The teacher might say, "Linus, show me what balls can do." Then the child can bounce, roll, or toss the ball to show his understanding of balls.

**Analysis:** Answers require *taking apart knowledge* or *putting it together* in an organized manner.

Examples:

- Look at this collage and tell how it was put together.
- What comes next in this pattern of colors?
- Put this puzzle together.
- Name all the triangular shapes you can find in the classroom.

A common material in a preschool classroom that requires children to analyze information is a puzzle. Putting it together requires that children carefully look at pieces (in other words, analyze the pieces) to determine how they fit together. Children would use their familiarity with puzzle construction, their knowledge of colors and shapes, and their previous experience with the items pictured in the puzzle. The teacher could ask, "How did you know that the blue puzzle piece fits in that spot? Would another piece fit there as well?"

## PATTERN OF COLORS?

**Synthesis:** Answers require describing or *developing a new product* based on information acquired. This is the creative aspect of thinking.

Examples:

- Goldilocks and the three bears are characters in a story you know. Could you use these same characters to make up a new story?
- Let's make up a new song for Earth Day.
- Tell what you think it would be like to be a tree.
- Imagine your mother when she was a baby. What do you think she was like?

The synthesis-level question generates a product, just as the application level does. The difference is that synthesis-level questions result in a novel product, never seen before. Children must have knowledge to answer a synthesis-level question, yet each child individually arrives at an answer. For example, children must know the story of *Goldilocks and the Three Bears* (knowledge) to create a new story like *Goldilocks Cleans Up Her Mess* or *Goldilocks Goes to School* (synthesis).

At the application level, children might construct a collage from magazine pictures. At the synthesis level, the child would design a new object with a new purpose. For example, the teacher asks a child to use construction paper, glue, and ribbon to design a ball for the sand table. **Evaluation:** Answers require *judging the information* one has, taking a position, and defending the response.

Examples:

- What do you like best about your picture?
- Why do people need to know about safety signs?
- Why do you think Goldilocks went into the three bears' house?
- Why do you think children need to know how to add and subtract?

According to Bloom, the highest-level question is the evaluation level, but children need to defend the answer given. If a teacher says, "Mindy, describe the insect you like best," the teacher might also ask why it's her favorite. If the teachers asks, "Which insect will jump the highest?" a test needs to be developed to determine the result. Then the child can form a judgment based on the test.

## Go beyond rote questions

Bloom's Taxonomy meets the needs of most class-room teachers and caregivers. When adults rely only on rote-level questions, they fail to capture the creativeness of children's minds. Their classrooms are humdrum, and their teaching styles risk becoming mundane.

Popham recommends the use of higher-order questions to add zest and enthusiasm to classroom learning. Asking better questions allows children to develop their minds and discover new knowledge and concepts.

#### References

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#### About the author

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