

Comprehension, Curiosity & Collaboration: The Real 21st Century Skills



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Passion and Wonder are Contagious!

Inquiry is a way of life.

*Inquiry based learning is not about a
final product at the end;*

*Inquiry based learning is about living
in a way that kids' questions matter.*

Harvey 2014

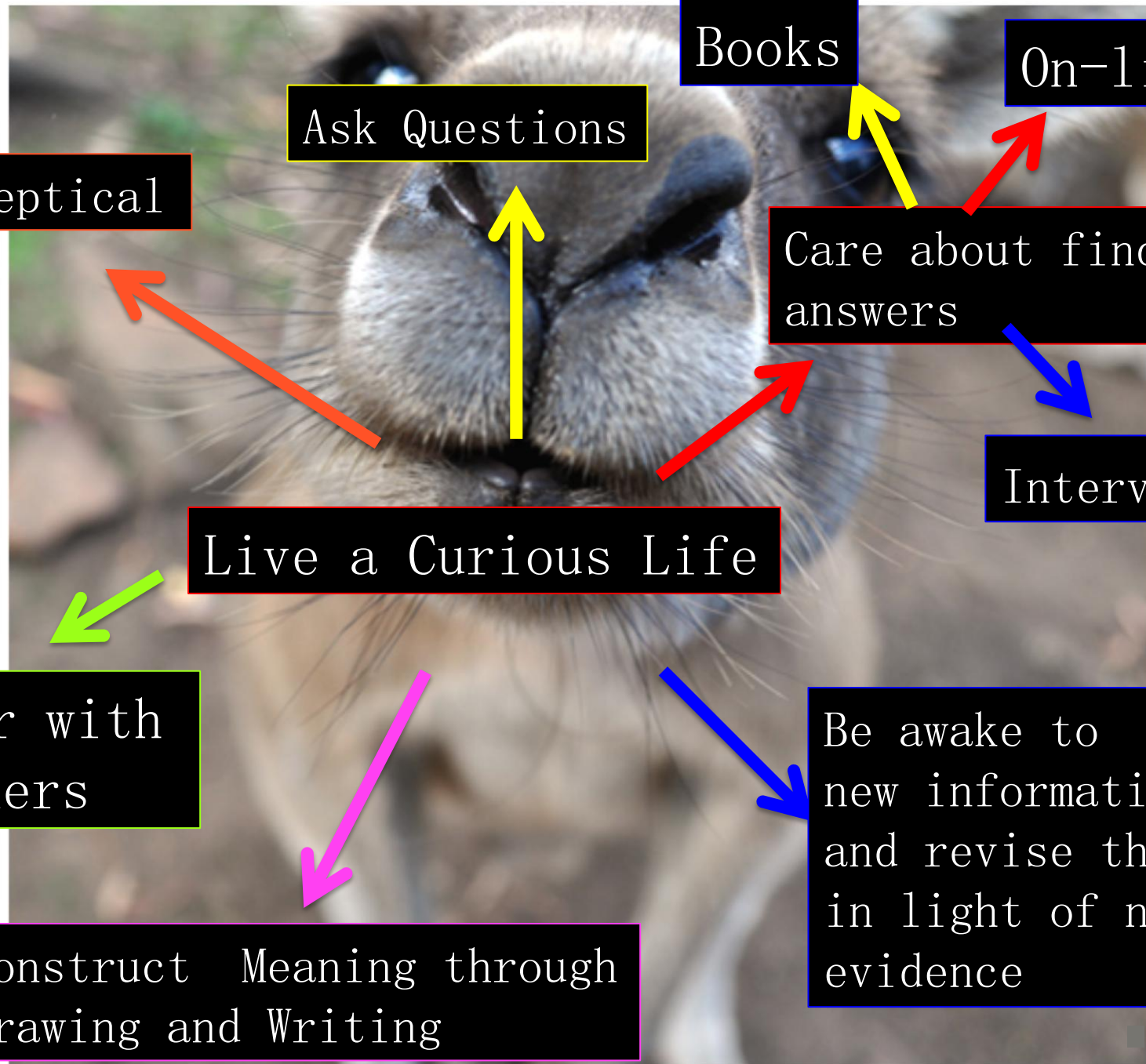
Always be on the
lookout for the
presence of wonder.

E.B. White

Conditions for Curiosity:

- View learning and life as an experiment where we grow, learn & innovate by working on something, making mistakes and trying again (& again...)
- Celebrate the questioning and the learning rather than the knowing.
- Build in time every day for kids to experiment, explore and investigate.
- Model your own curiosity every day and show that you care about finding answers.

(Harvey 16)



Ask Questions

Books

On-line

Be skeptical

Care about finding answers

Interviews

Live a Curious Life

Confer with others

Be awake to new information and revise thinking in light of new evidence

Construct Meaning through Drawing and Writing

Comprehension is not about answering a bunch of questions at the end.

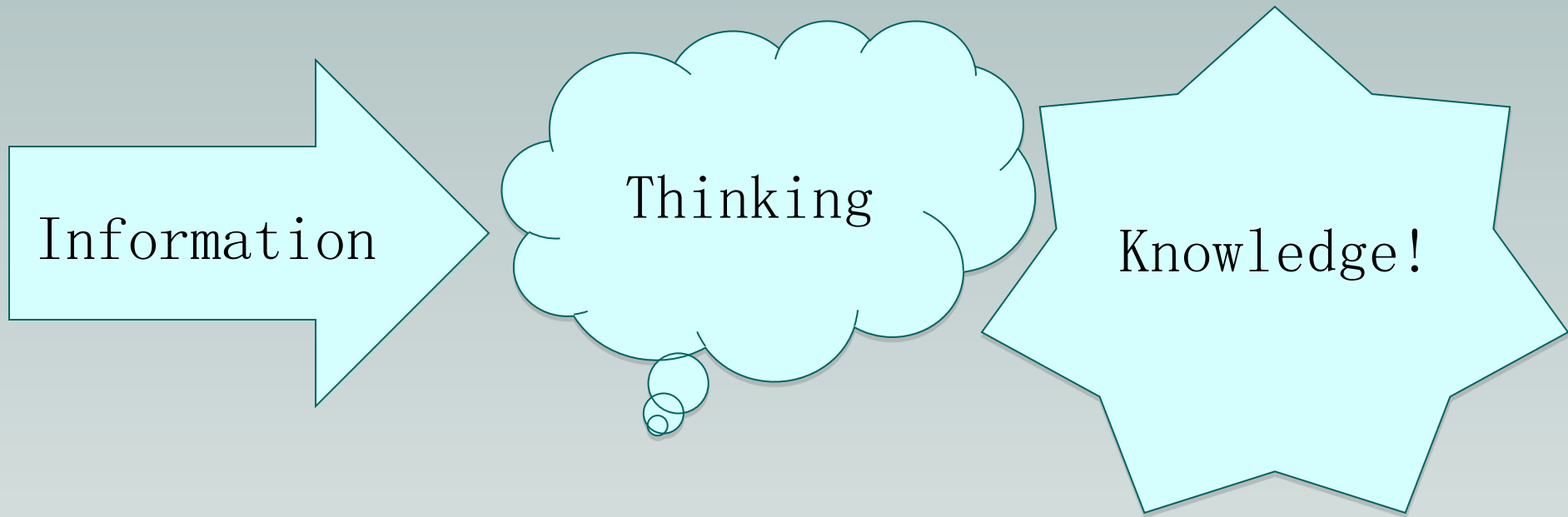
Comprehension is an ongoing process of evolving thinking.

It is the evolution of thought that occurs while we are reading listening and viewing.

It is, above all, the inner conversation that readers have with text, the voice in our heads that speaks to us as we read, our inner voice.

Harvey 2014

“ We teach comprehension strategies
so kids can acquire and use knowledge. ”



“ We turn information into knowledge by thinking about it.”

Strategies for Active Reading

Active Readers:

❑ Monitor Comprehension

- listen to their inner voice and follow the inner conversation,
- notice when meaning breaks down and/or mind wanders
- leave tracks of their thinking by jotting thoughts when reading
- stop, think and react to information
- talk about the reading before, during and after reading
- respond to reading in writing
- employ “fix up strategies” ---reread for clarification, read on to construct meaning, use context to break down an unfamiliar word, skip difficult parts and continue on to see if meaning becomes clear, check and recheck answers and thinking, examine evidence

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❑ Activate and Connect to Background Knowledge

- refer to prior personal experience
- activate prior knowledge of the content, style, structure, features and genre
- connect the new to the known- use what they know to understand new information
- merge their thinking with new learning to build knowledge base
- activate their schema to read strategically

❑ Ask Questions

- wonder about the content, concepts, outcomes and genre
- question the author
- question the ideas and the information
- read to discover answers and gain information
- wonder about the text to understand big ideas
- do further research and investigation to gain information

❑ **Infer and Visualize Meaning**

- use context clues to figure out the meaning of unfamiliar words
- draw conclusions from text evidence
- predict outcomes, events and characters' actions
- surface underlying themes
- answer questions that are not explicitly answered in the text
- create interpretations based on text evidence
- visualize as well as hear, taste, smell and feel the words and ideas

❑ **Determine Importance**

- sift important ideas from interesting but less important details
- target key information and code the text to hold thinking
- distinguish between what the reader thinks is important and what the author most wants the reader to take away
- construct main ideas from supporting details
- choose what to remember

❑ **Synthesize and Summarize**

- take stock of meaning while reading
- add to knowledge base
- paraphrase information
- move from facts to ideas
- use the parts to see the whole--read for the gist
- rethink misconceptions and tie opinions to the text
- revise thinking during and after reading
- merge what is known with new information to form a new idea, perspective, or insight
- generate knowledge

How Proficient Collaborators Think and Act

Strategy	Examples/Actions
1. Be responsible to the group	<ul style="list-style-type: none"> • Come prepared: work completed, materials and notes in hand • Bring along interesting questions/ideas/artifacts • Take initiative, help people get organized • Live by the group's calendar, work plan, and ground rules • Settle problems within the group • Fess up if unprepared and take on some other work
2. Listen actively	<ul style="list-style-type: none"> • Make eye contact • Nod, confirm, look interested • Lean in, sit close together • Summarize or paraphrase • Use names • Take notes when helpful
3. Speak up	<ul style="list-style-type: none"> • Join in, speak often, be active • Connect your ideas with what others have said • Ask lead and follow-up questions • Use appropriate tone and voice level • Draw upon the notes, materials, or drawings you've brought • Overcome your shyness
4. Share the air and encourage others	<ul style="list-style-type: none"> • Show friendliness and support • Take turns • Be aware of who's contributing; work to balance the airtime • Monitor yourself for dominating or shirking • Invite others to participate • Build upon and learn from others' ideas
5. Support your views and findings	<ul style="list-style-type: none"> • Explain and give examples • Refer to specific passages, evidence, or artifacts • Connect or contrast your ideas to others' • Dig deeper into the text or topic; revisit important ideas
6. Show tolerance and respect	<ul style="list-style-type: none"> • Receive others' ideas respectfully; no put-downs allowed • Try to restate opposing views • Use neutral language in disagreeing • Offer your different viewpoint; don't be steamrolled • Welcome and seek insight in divergent viewpoints
7. Reflect and correct	<ul style="list-style-type: none"> • Do frequent reflections or "think-backs" on group processes • Identify specific behaviors that helped or hurt the discussion • Talk openly about problems • Make plans to try out new strategies and review their effectiveness • Keep written record of group processing

What Social Strategy Use Looks and Sounds Like

Strategy	Sounds/Looks Like	Doesn't Sound/Look Like
1. Be responsible to the group	<p>"Does everyone have their articles? Good, let's get going."</p> <p>"Let me show you this great website I found..."</p> <p>"I'm sorry, guys, I didn't get the reading done."</p> <p>"Ok, then today I'll take notes on the meeting."</p>	<p>"What? There's a meeting today?"</p> <p>"I left my stuff at home."</p> <p>"Teacher, Bobby keeps messing around."</p> <p>Arriving late, unprepared, without materials.</p>
2. Listen actively	<p>"Joe, pull your chair up closer."</p> <p>"I think I heard you say..."</p> <p>"So you think..."</p> <p>Asking follow up questions</p>	<p>Not looking at others</p> <p>"Huh? I wasn't listening."</p> <p>Playing with pencils, shuffling materials.</p>
3. Speak up	<p>"What you said just reminded me of..."</p> <p>"Can I piggyback on this?"</p> <p>"What made you feel that way?"</p> <p>"Let me show you my drawing."</p>	<p>Silence</p> <p>Whispering or shouting</p> <p>Not using/looking at notes</p> <p>Hiding from participation</p>
4. Share the air and encourage others	<p>"Can you say more about that, Chris?"</p> <p>"We haven't heard from you in a while, Joyce."</p> <p>"I better finish my point and let someone else talk."</p> <p>"That's a cool idea, Tom."</p>	<p>"Blah blah blah blah blah blah blah..."</p> <p>"I pass."</p> <p>"You guys are so boring."</p> <p>Declining to join in when invited</p>
5. Support your views and findings	<p>"I think Jim treats Huck as a son because..."</p> <p>"Right here on page 15, it says that..."</p> <p>"The person I interviewed said..."</p> <p>"My thinking was a lot like Jennifer's..."</p>	<p>"This book is dumb."</p> <p>"Well, that's my opinion anyway."</p> <p>"No, I didn't consider any other interpretations."</p>
6. Show tolerance and respect	<p>"Wow, I thought of something totally different."</p> <p>"I can see your point, but what about..."</p> <p>"I'm glad you brought that up; I never would have seen it that way."</p>	<p>"You are so wrong!"</p> <p>"What book are <i>you</i> reading?"</p> <p>"Where did you get <i>that</i> idea?"</p> <p>Rolling eyes, disconfirming body language.</p>
7. Reflect and correct	<p>"What went well today and where did we run into problems?"</p> <p>"We are not sharing the talk time evenly."</p> <p>"OK, so what will we do differently during our next meeting?"</p>	<p>"We rocked."</p> <p>"We sucked."</p> <p>"It was OK."</p> <p>"Who cares?"</p>

Home Court Advantage: *Showing Friendliness and Support*



See this lesson in action on pages 227, 247.

→ **TIP:** This lesson was originally developed in high school, where put-downs are a special concern. Yes, it sounds corny—but it works. And even the little ones comprehend the metaphor of this lesson—so many of them are on soccer teams! In place of showing the newspaper article, you can simply question them about their experiences playing at home versus away.

WHEN and WHY: We use this lesson for group-building early in the year or at times when bickering or disunity have occurred. Thanks to Nancy Steineke for introducing us to this powerful lesson.

INITIATE: From the sports pages of the newspaper, clip out the standings for a local baseball, football, or soccer team—the ones that include home and away game outcomes. Make copies for kids or project them on a screen.

TEACH/MODEL: “OK, guys, take a look at these standings from today’s paper. What do you notice about home games versus away games? Turn and talk with a partner for a minute.”

Kids will report back that teams generally win more home games than away games.

“Why do you think that is? What would be some reasons? Get back together and jot down a few ideas you have.”

Kids typically will return with ideas like these:

Fans cheer you.

Nobody boos

Same place we practice

No distracting fans

You know the field/court

Feel comfortable

Your friends are watching

As a whole group, prioritize the suggestions and make a consensus list. If kids don’t bring it up along the way, be sure to highlight the issue of put-downs.

“Is anyone in here on a team? What do you do when one of your teammates makes a mistake?”

Students may offer ideas like, “We say, ‘Nice try Bob!’ ” or “We don’t laugh or boo.”

“Exactly. And in the classroom we are a team also, we are all on the same side. You never put down a teammate. If you hear a put-down in here, you can just quietly say ‘home court’ to remind people we are a team. OK?”

INDEPENDENT PRACTICE: Invite kids to make posters that depict the idea of home court advantage. They can place the term at the center and elaborate around it with drawings and specific sayings people can use with teammates (“Good effort, Janie” or “No put-downs”). Hang posters around the room and refer to them periodically.