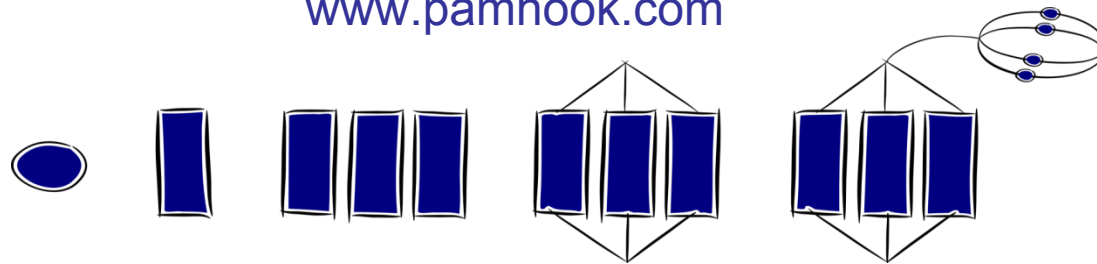


SOLO Taxonomy and Questions, Questioners, Questioning

Pam Hook
www.pamhook.com



“Once you have learned how to ask relevant and appropriate questions, you have learned how to learn and no one can keep you from learning whatever you want or need to know.”



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Neil Postman and Charles Weingartner
Teaching as a Subversive Activity

“.... the greatest invention since the birth of mankind is the **question.**” (Witte 2001)

“..... as teachers, the first thing we steal from our children is **their questions.**”
(Edwards 2001)

- *“Going in search of student questions is like travelling into a **linguistic Serengeti**”*

(Hook 2003)



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How does “doing school”
discourage questioning?



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*Never mind what's Sanctifying Grace! That's none of your business. You are here to learn the catechism and do what you are told. **You are not here to be asking questions.***

Angela's Ashes



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How can we develop student
questioning, student questioners, and
student questions?



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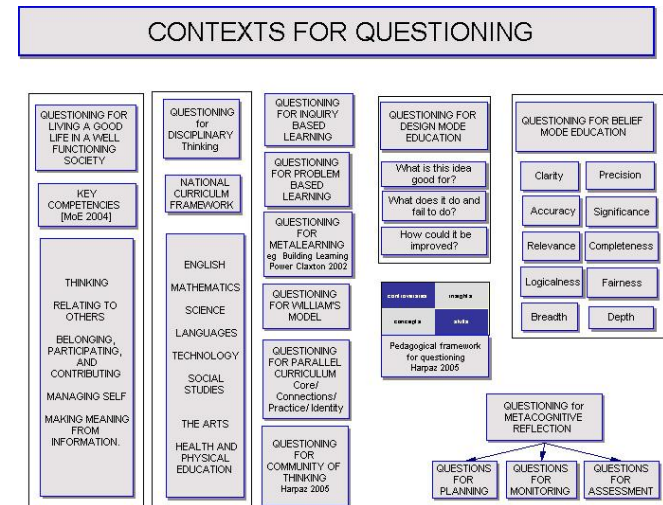
Helping students become better questioners requires:

- Contexts for **Questioning**
- Dispositions for **Questioners**
- Frameworks for **Questions**

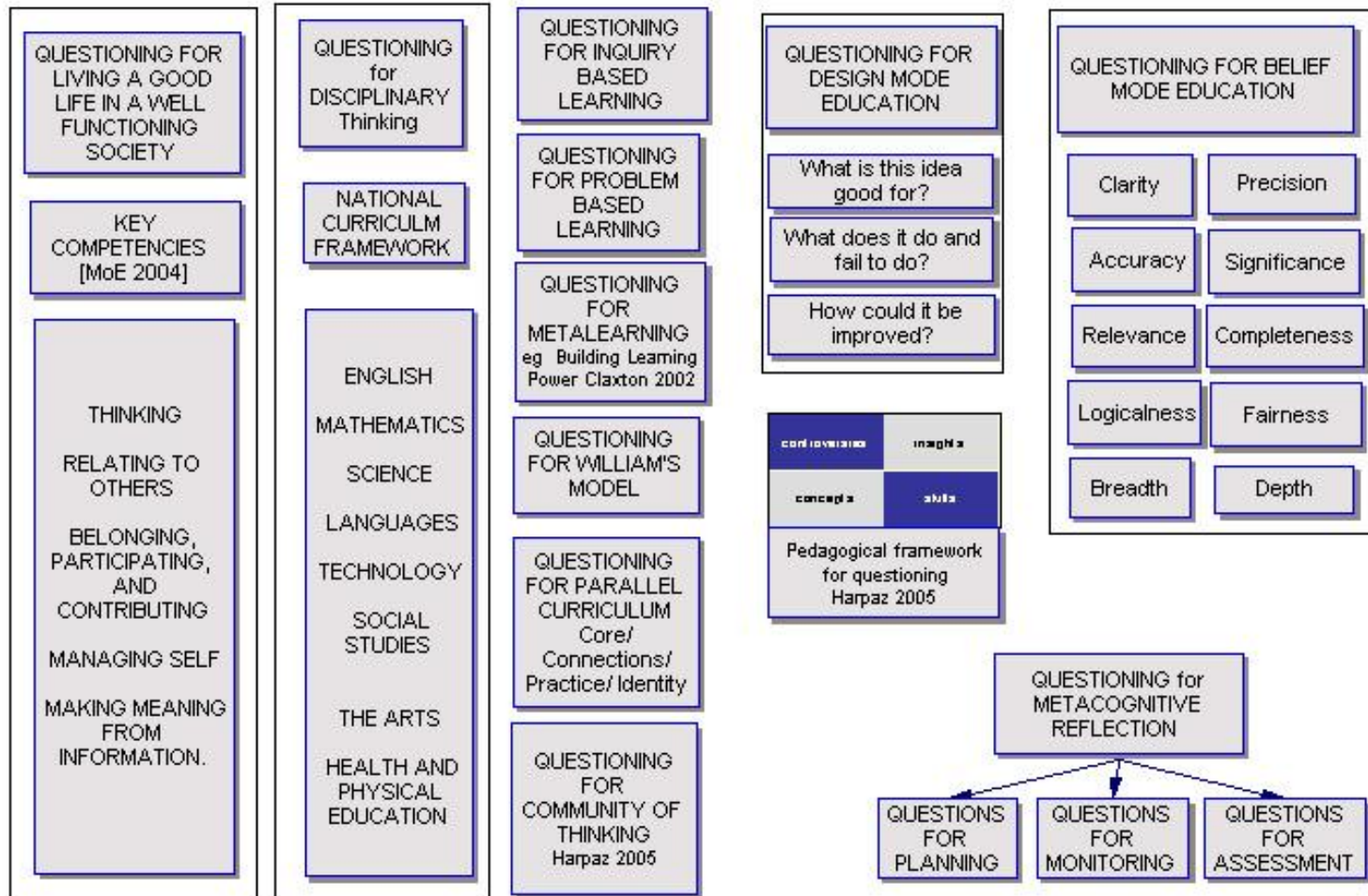
Contexts for Questioning

Why do you value student questioning in your learning community?

In society and in schools the questioner is oftentimes marginalised as a trouble maker and maverick ...

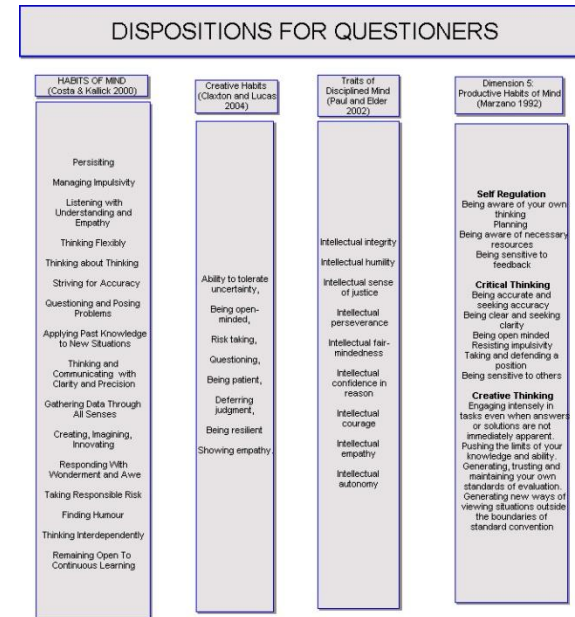


CONTEXTS FOR QUESTIONING



Dispositions for Questioners

How do you value student questioning behaviours in your learning community?



DISPOSITIONS FOR QUESTIONERS

HABITS OF MIND (Costa & Kallick 2000)

Persisting

Managing Impulsivity

Listening with Understanding and Empathy

Thinking Flexibly

Thinking about Thinking

Striving for Accuracy

Questioning and Posing Problems

Applying Past Knowledge to New Situations

Thinking and Communicating with Clarity and Precision

Gathering Data Through All Senses

Creating, Imagining, Innovating

Responding With Wonderment and Awe

Taking Responsible Risk

Finding Humour

Thinking Interdependently

Remaining Open To Continuous Learning

Creative Habits (Claxton and Lucas 2004)

Ability to tolerate uncertainty,

Being open-minded,

Risk taking,

Questioning,

Being patient,

Deferring judgment,

Being resilient

Showing empathy.

Traits of Disciplined Mind (Paul and Elder 2002)

Intellectual integrity

Intellectual humility

Intellectual sense of justice

Intellectual perseverance

Intellectual fair-mindedness

Intellectual confidence in reason

Intellectual courage

Intellectual empathy

Intellectual autonomy

Dimension 5: Productive Habits of Mind (Marzano 1992)

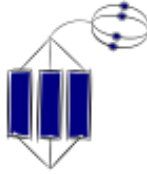




Self Regulation
Being aware of your own thinking
Planning
Being aware of necessary resources
Being sensitive to feedback

Critical Thinking
Being accurate and seeking accuracy
Being clear and seeking clarity
Being open minded
Resisting impulsivity
Taking and defending a position
Being sensitive to others

Creative Thinking
Engaging intensely in tasks even when answers or solutions are not immediately apparent.
Pushing the limits of your knowledge and ability.
Generating, trusting and maintaining your own standards of evaluation.
Generating new ways of viewing situations outside the boundaries of standard convention

Self Assessment Rubric for Asking Questions

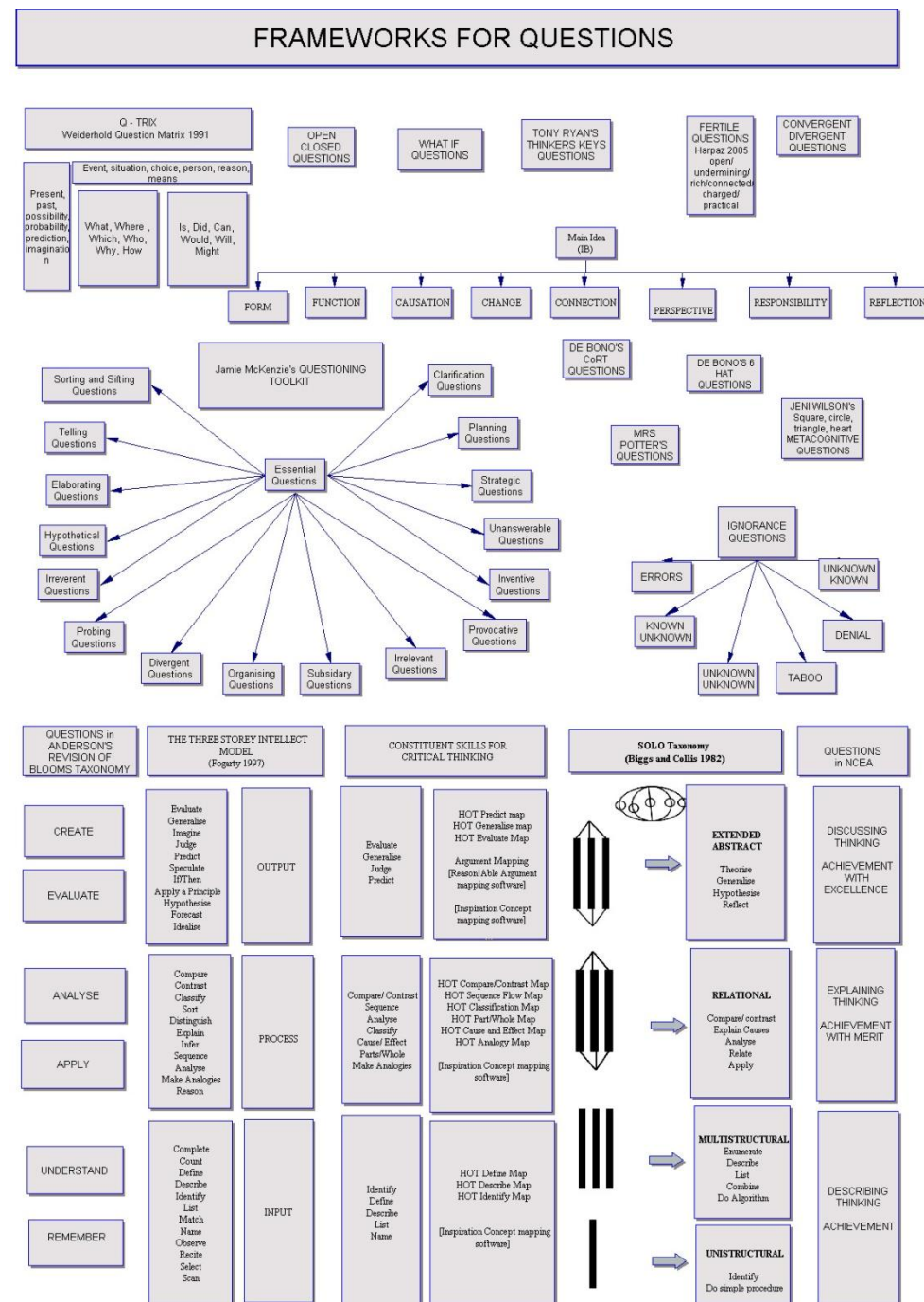
Self and peer
assessment rubrics
coded against
SOLO Taxonomy

	I can ask anyone relevant and appropriate questions when seeking answers, and I can reflect on my questioning.	
	I can ask my family, friends, teacher and people I don't know, like experts, relevant/ appropriate questions when seeking answers	
	I can ask my family, friends, classmates and teachers questions when seeking answers	
	I can ask my family and close friends questions when seeking answers	
	I need help to ask a question	

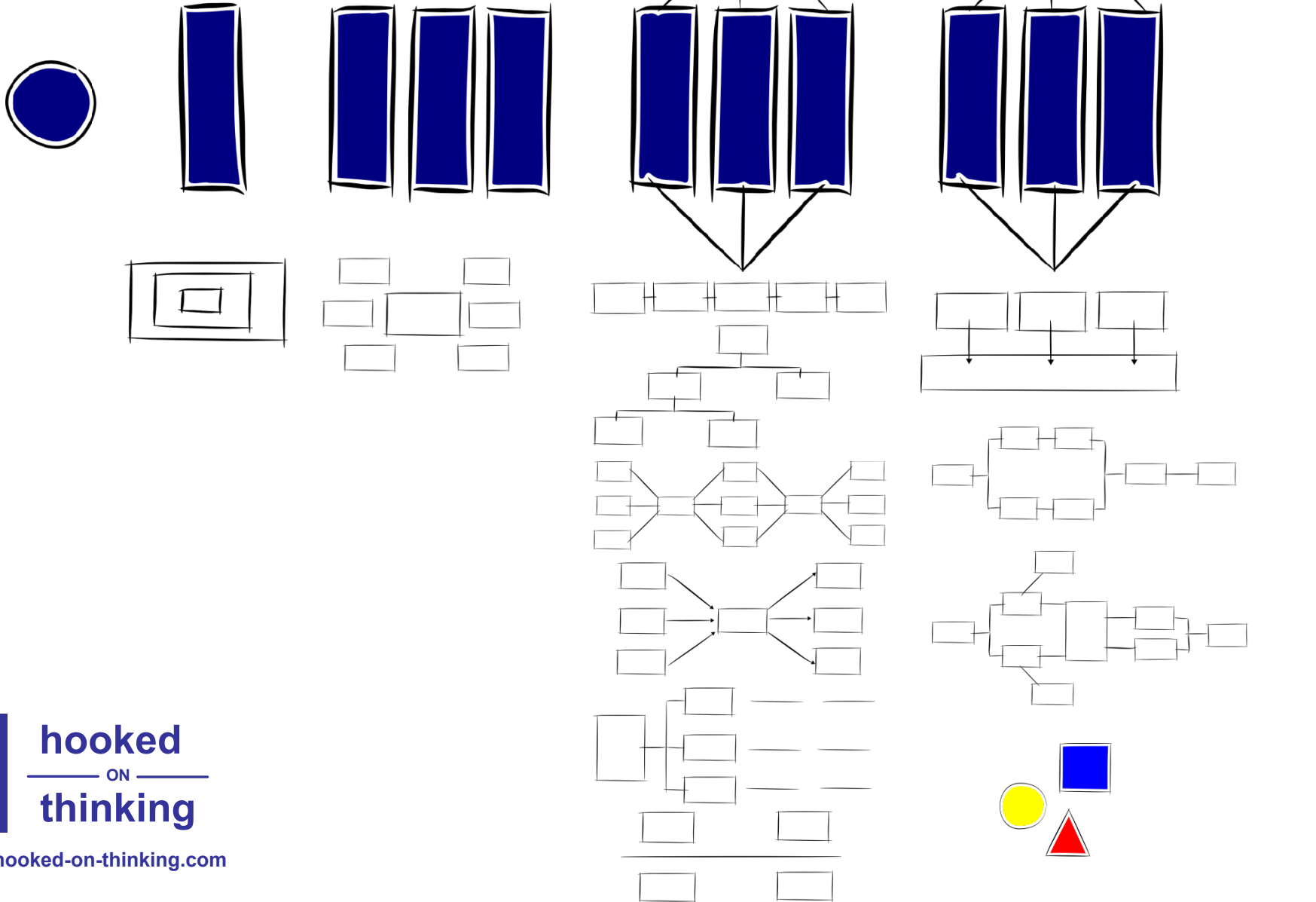
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How can you design a developmental sequence of questioning frameworks to build student expertise in making questions?

Student questions change with different questioning frameworks.



SOLO Taxonomy and HOT Maps as a Questioning Framework.








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Self Assessment Rubrics for Formulating Questions

Self and peer
assessment rubrics
coded against SOLO
Taxonomy

	I can make questions that go beyond the subject and make links to other concepts.	
	I can make questions that link information relevant to the subject	
	I can make questions that bring in more than one idea relevant to the subject.	
	I can make questions that bring in one idea relevant to the subject.	
	I need help to make a question	



transforming learning outcomes

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