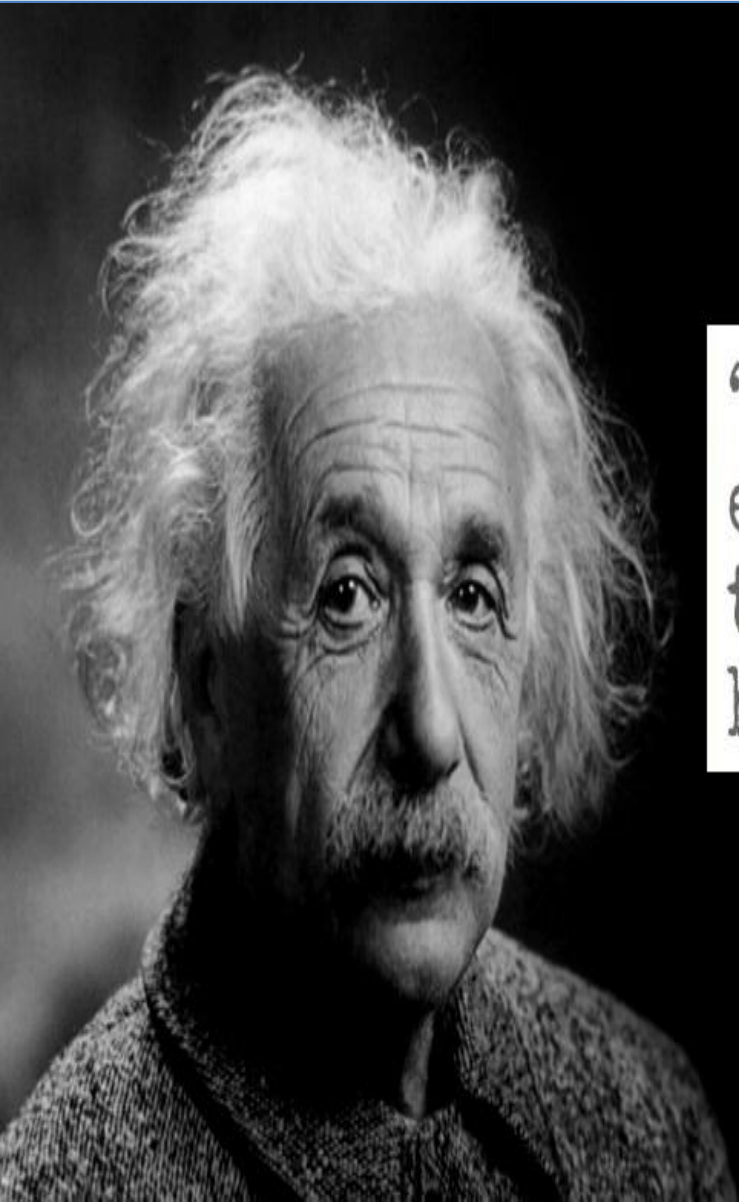




Creativity and Inquiry Based Learning in Teaching Science

Name: Amine Kamal Hamdan (M.Ed)

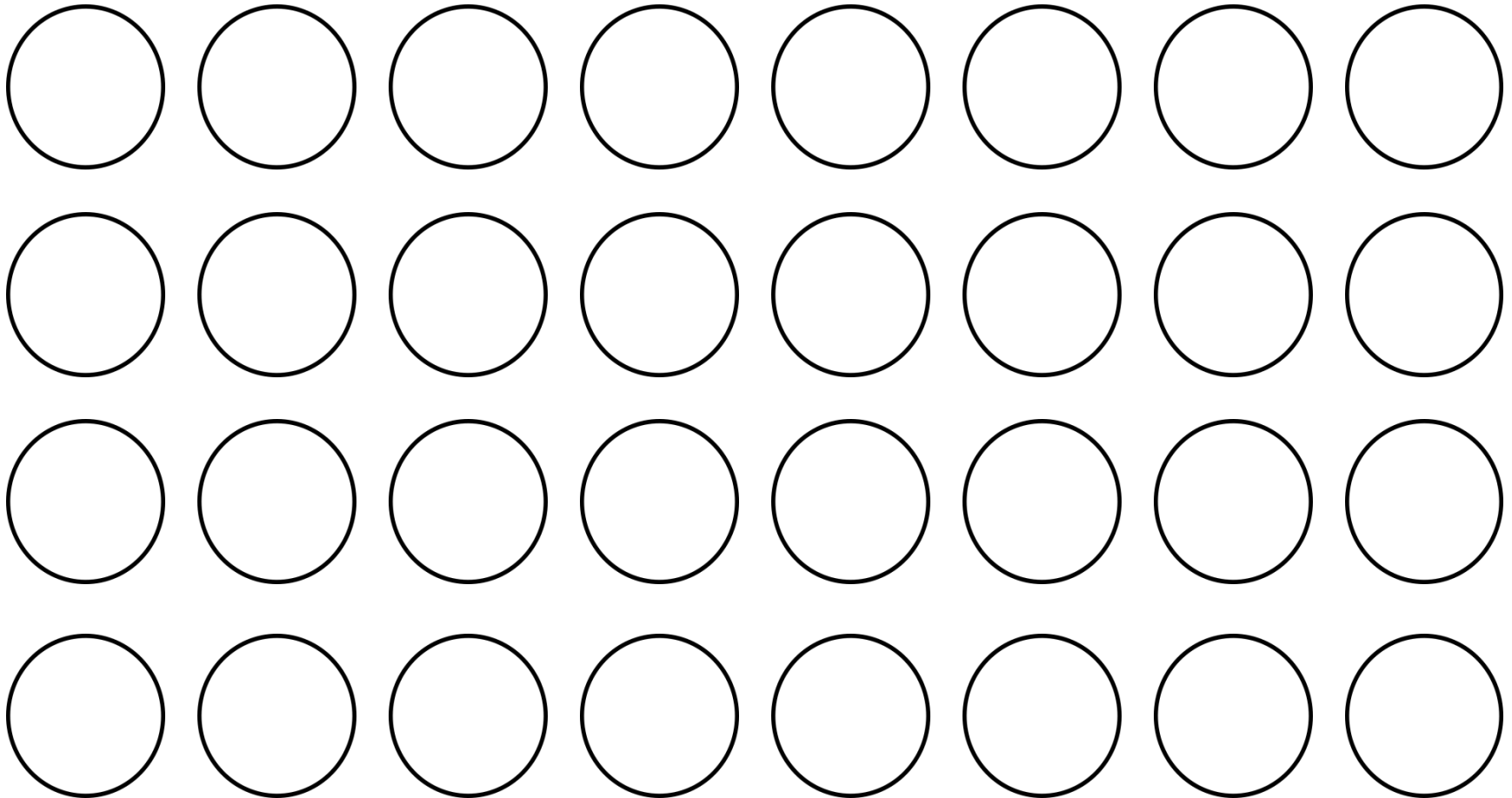
E-mail: amine@consultfocalpoint.com



“Creativity is seeing what everyone else has seen, and thinking what no one else has thought.”



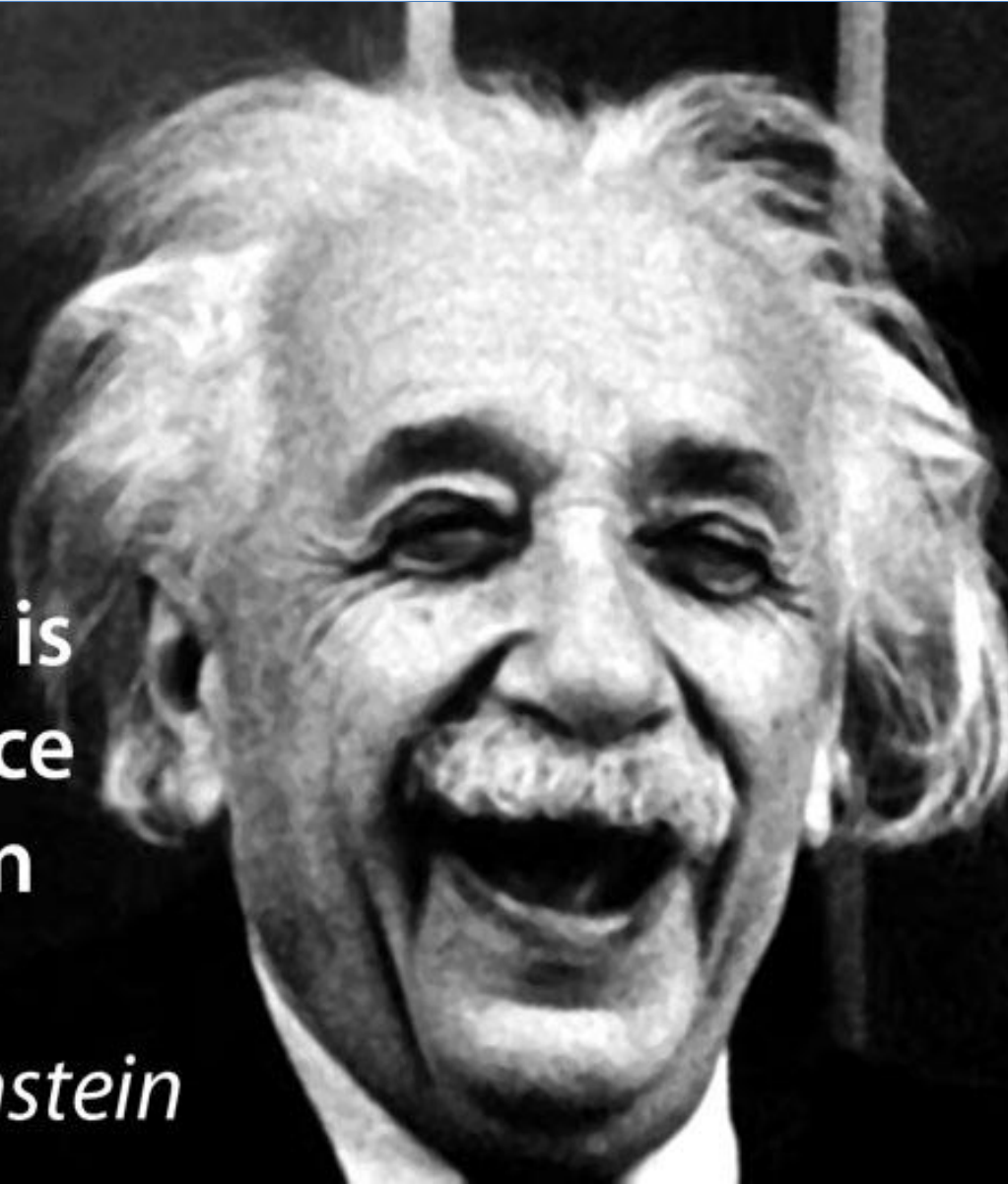
Use the circles as a prompt for drawing. Draw for 60 seconds





**Creativity is
intelligence
having fun**

- Albert Einstein





The Candle Problem is a classic test of creative problem solving developed by psychologist Karl Duncker in 1945. Subjects are given a candle, a box of thumbtacks, and a box of matches, and asked to affix the lit candle to the wall so that it will not drip wax onto the table below. Go ahead and give it a try !!

Time: 3 min





Comment with one or two sentences on the following pictures.







Your Comments!!



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Let's teach kids to
Think outside the box
Not fill in circles



**„I believe this passionately that we don't
grow into creativity; we grow out of it or
rather we get educated out of it. “**

**Sir Ken Robinson
1950 -**





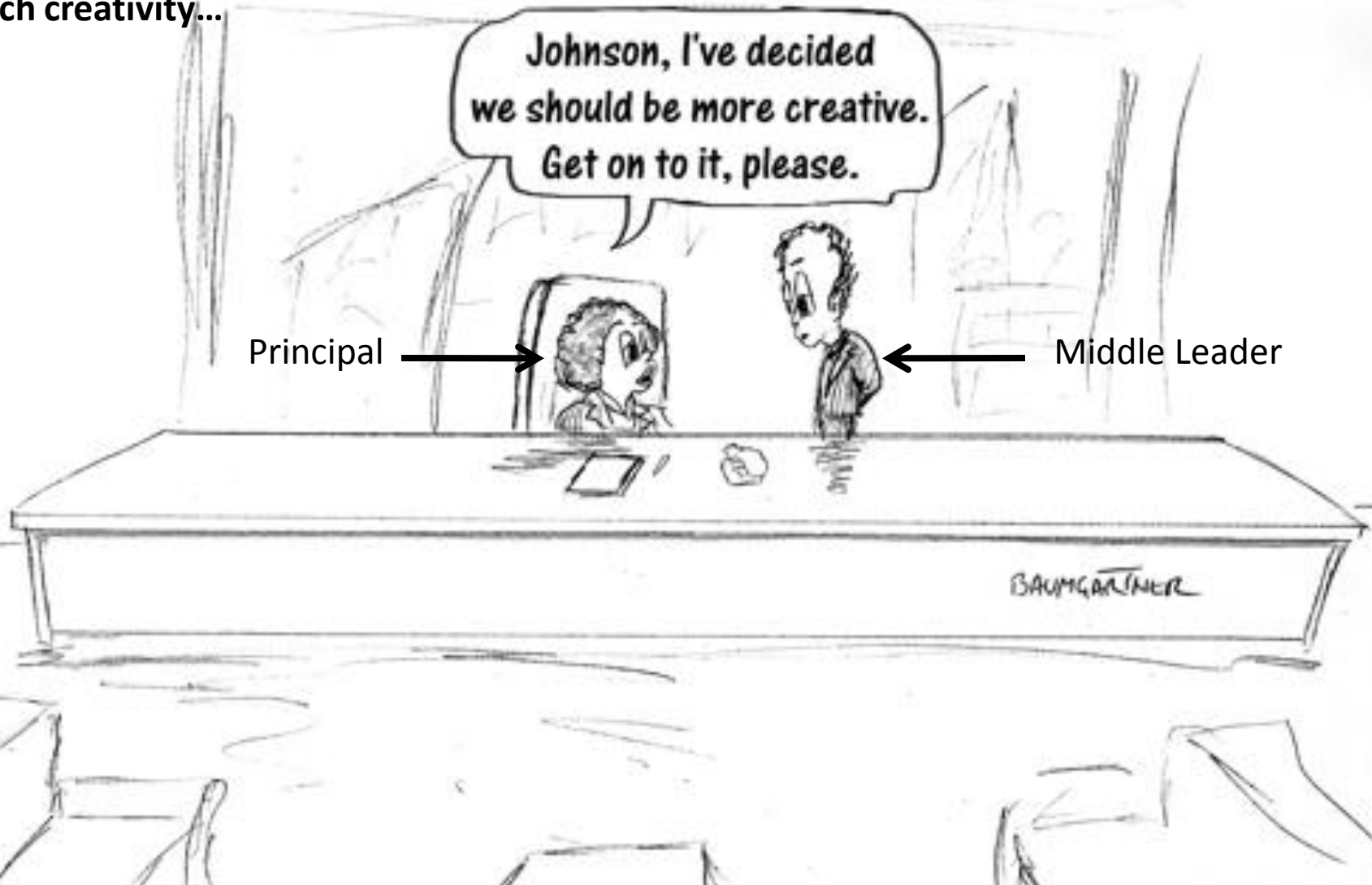
Schools and Creativity



Creativity



How some schools approach creativity...





*Teachers,
The school has decided we
should be more creative...
Get on to it, please.*



Middle Leader



Teachers



BUT..... HOW??!!!!





***It starts with
“Divergent Thinking”!***



SIR KEN ROBINSON





Creativity and Divergent Thinking

Convergent Thinking:



Many facts, one right answer

What we have

Divergent Thinking:



One stimulus, many responses

What we still need



So what about Inquiry Based Learning?

Research suggests that inquiry based learning (IBL) is one way to promote creativity and foster 21st Century skills.

The 'art' of
TEACHing...

is the art of...

ASSISTing
DISCOVERY

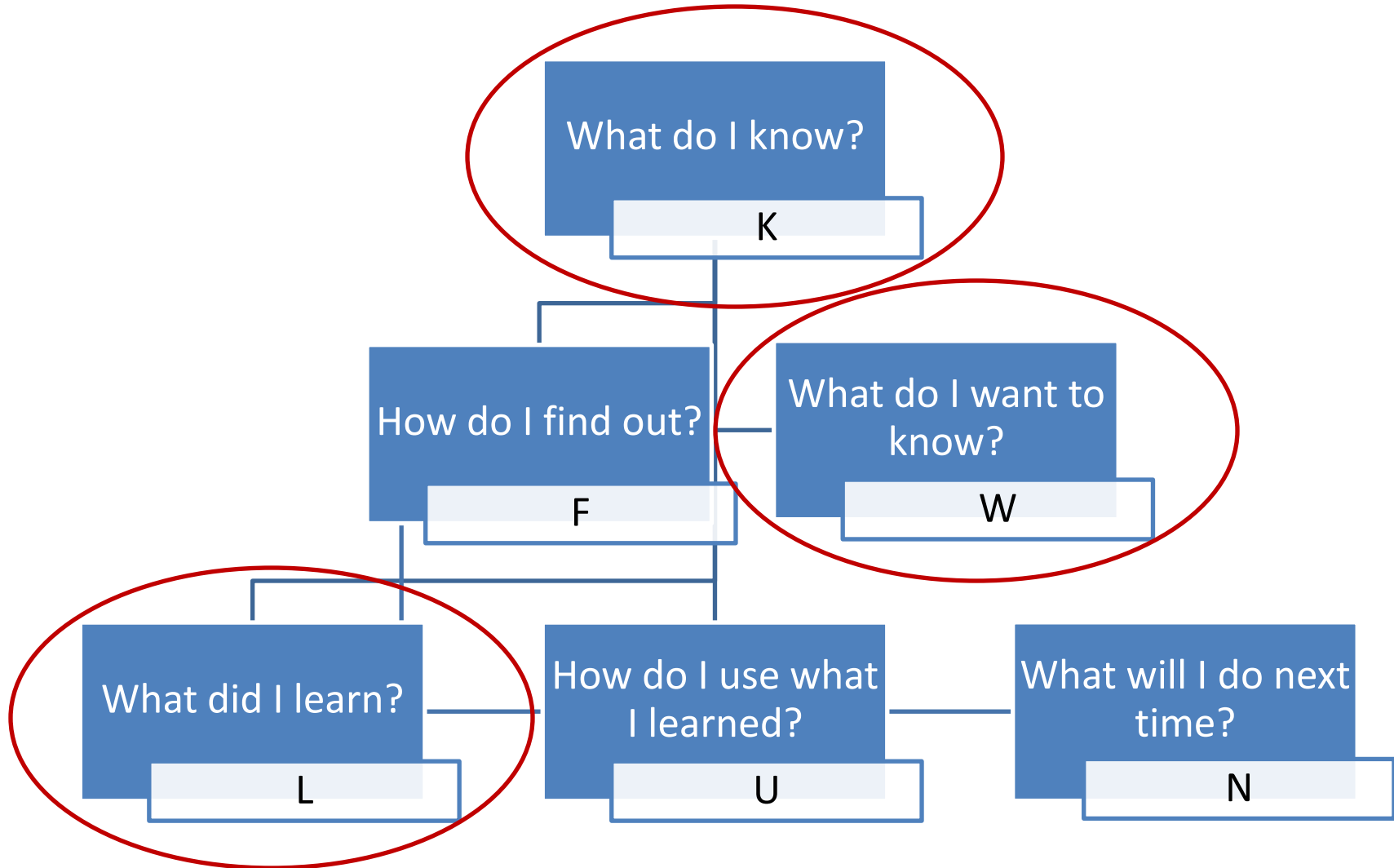




It's all about the WOW factor !!



*It takes creative and responsive teaching to
transform wonder into knowledge.
(Scardamalia)*





Inquiry Based Learning

Is a process where students

Formulate questions

Investigate

Build new
knowledge

Communicate
learning to others

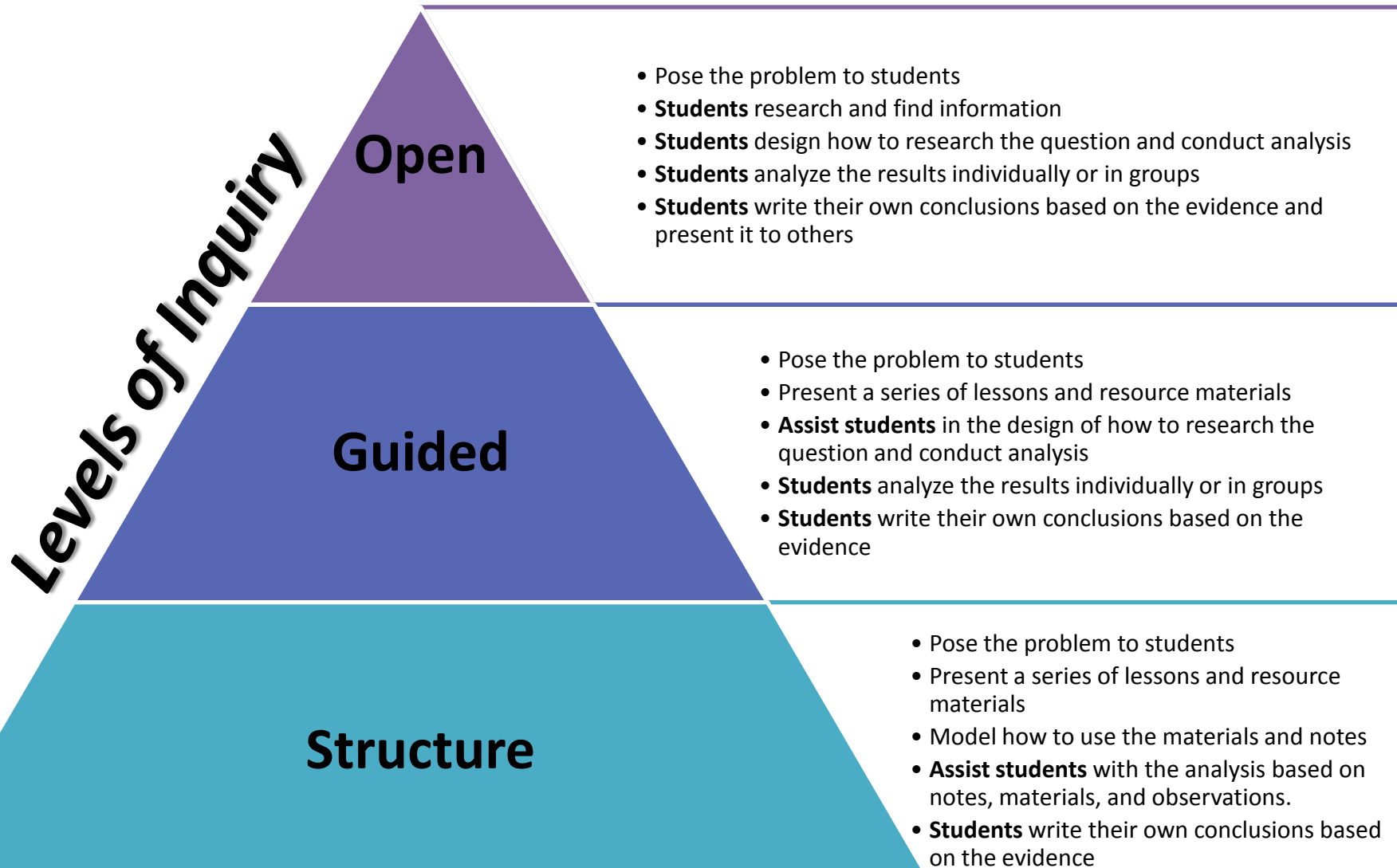
Enhances students'

Creativity

Independence

Problem
solving skills

Achievement





Inquiry Based Learning

Environment

Implementation

Assessment

**Classroom
Walls**

Seating

Resources

Gathering Place

Planning

Retrieving

Processing

Creating

Sharing

Evaluating

**Assessment
FOR Learning**

**Assessment OF
Learning**



Kathleen, a fourteen year old girl managed to express the general needs of all students in her poem to her teacher cited by Carol Ann Tomlinson (2001, p.97)

***“Push me! See how far I go!
Work me ‘til I drop. Then pick me up.
Open a door, and then make me run to
it before it closes.
Teach me so that I might learn,
Then let me enter the tunnel of
experience alone.
And when, near the end,
I turn to see you beginning another’s
journey,
I shall smile.”***



*Thank
You*

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