Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

Yr Athrofa
Institute of Education

ECAD6011

Teaching for Creativity...

?

Oh man, you are going to be cursing me in around 10 mins and then for the rest of the session!











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Addysg i Gymru Education for Wales

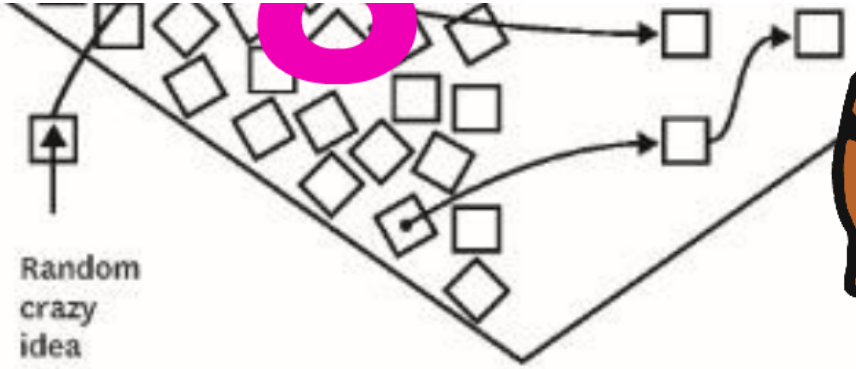
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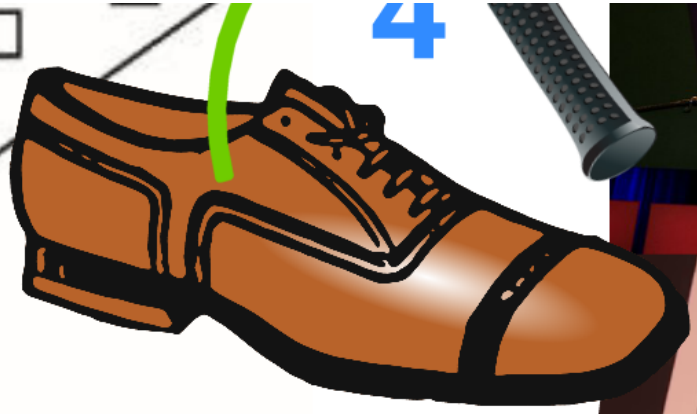
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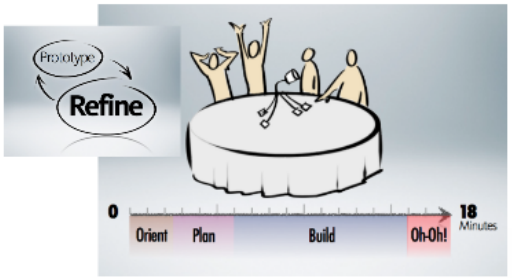
Teaching for Creativity

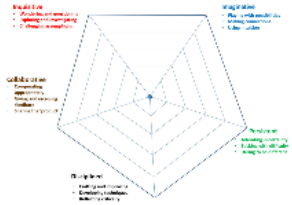
Forms of teaching that are intended to develop young peoples own creative thinking or behaviour.

National Advisory Committee on Creative and Cultural Education (NACCCE, 1999)

N.A.C.C.C.E. (1999) All our futures: creativity, culture and education (London, DfEE).

Fryer, M, Creative teaching and learning, Paul Chapman Publishing Ltd, London, 1996

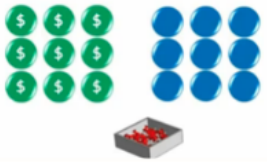




Five Dimensional Model of Creativity

Complex Version









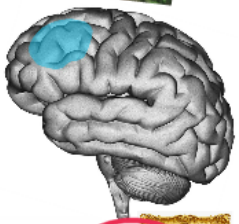
hmm...
a box of tacks

Blocking creativity

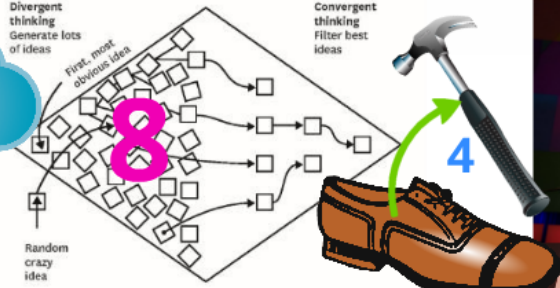
FUNCTIONAL FIXEDNESS



Substitute
Combine
Adapt
Modify/Distort
Put to other purposes
Eliminate
Rearrange/reverse

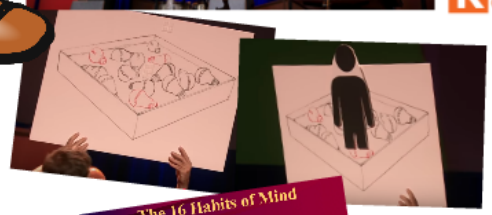
















Teaching for Creativity

Forms of teaching that are intended to develop young peoples own creative thinking or behaviour.

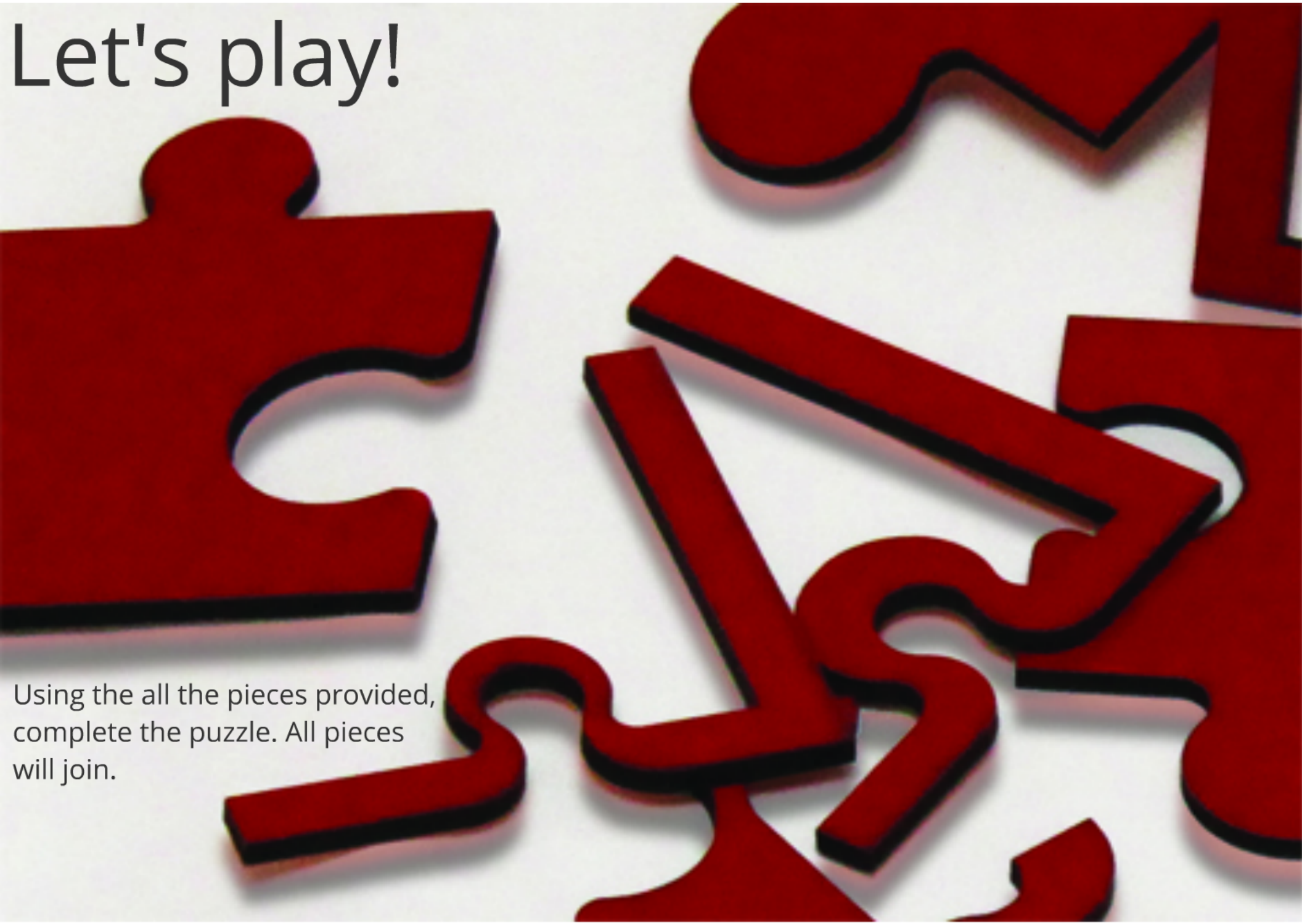
National Advisory Committee on Creative and Cultural Education (NACCCE, 1999)
N.A.C.C.C.E. (1999) All our futures: creativity, culture and education (London, DfEE).







Let's play!



Using the all the pieces provided, complete the puzzle. All pieces will join.



WHAT ASPECTS OF THE INNOVATION ENGINE COULD HELP US?



Let's make a list of all the strategies you used in the past to complete jigsaws

Let's consider our knowledge of jigsaws


Let's use this
knowledge to
do this thing!

SONY

IBM

intel

Disney



Roger Von Oech

Beca

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SONY

IBM

intel

Disney



Roger Von Oech

WHY BE CREATIVE?

WHY RISK FAILING?

WHY CHALLENGE THE RULES?

WHY RUN THE RISK OF LOOKING FOOLISH?

Because of Change...

...when things change and new information comes into existence, it's no longer possible to solve current problems with yesterday's solutions.

People are finding out that what worked two years ago won't work today...

They have a choice, they can either moan that things aren't as easy as they used to be, or they can use their creative abilities to find new answers, new solutions and new ideas.

"Discovery consists of looking at the same thing as everyone else and thinking something different." Von Oech (1983)

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Try this!





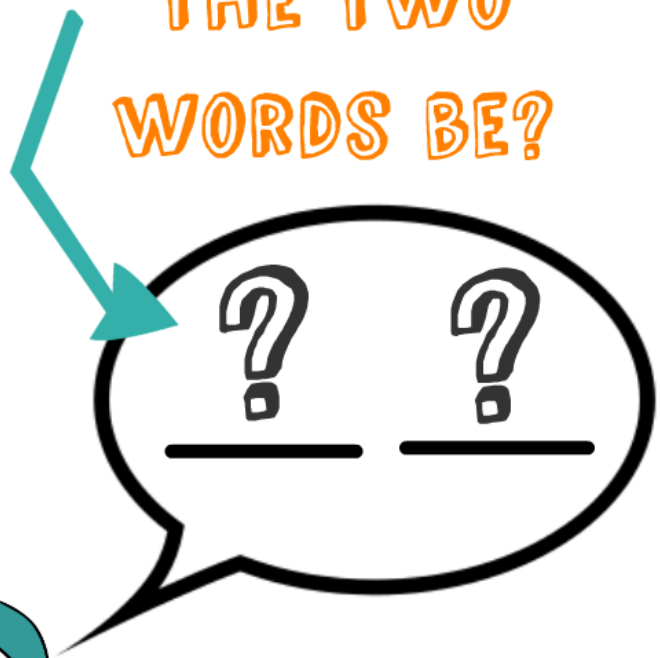




Owner of the slowest horse!



WHAT MIGHT THE TWO WORDS BE?








NO


FISKARS®



WHAT DO YOU SEE?



"Discovery consists of looking at the same thing as everyone else and thinking something different." Von Oech (1983)



Roger von Oech wrote a classic book on creativity in 1983, 'A Whack on the Side of the Head.'

A fun, simple overview of the creativity process.

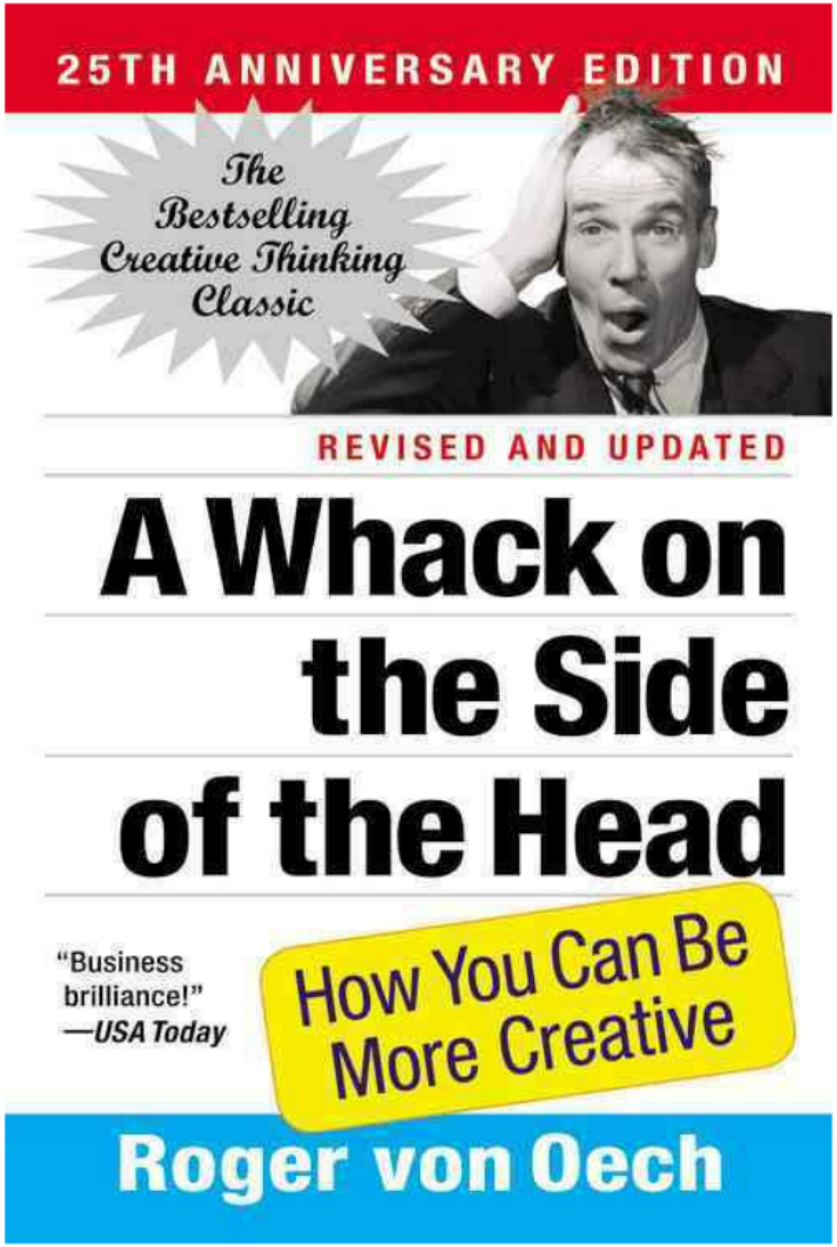
Roger explains 10 mental blocks, and the four roles in the creative process.

The Right Answer
That's Not Logical
Follow the Rules
Be Practical
Play is Frivolous
That's Not My Area
Don't Be Foolish
Avoid Ambiguity
To Err Is Wrong
I'm Not Creative



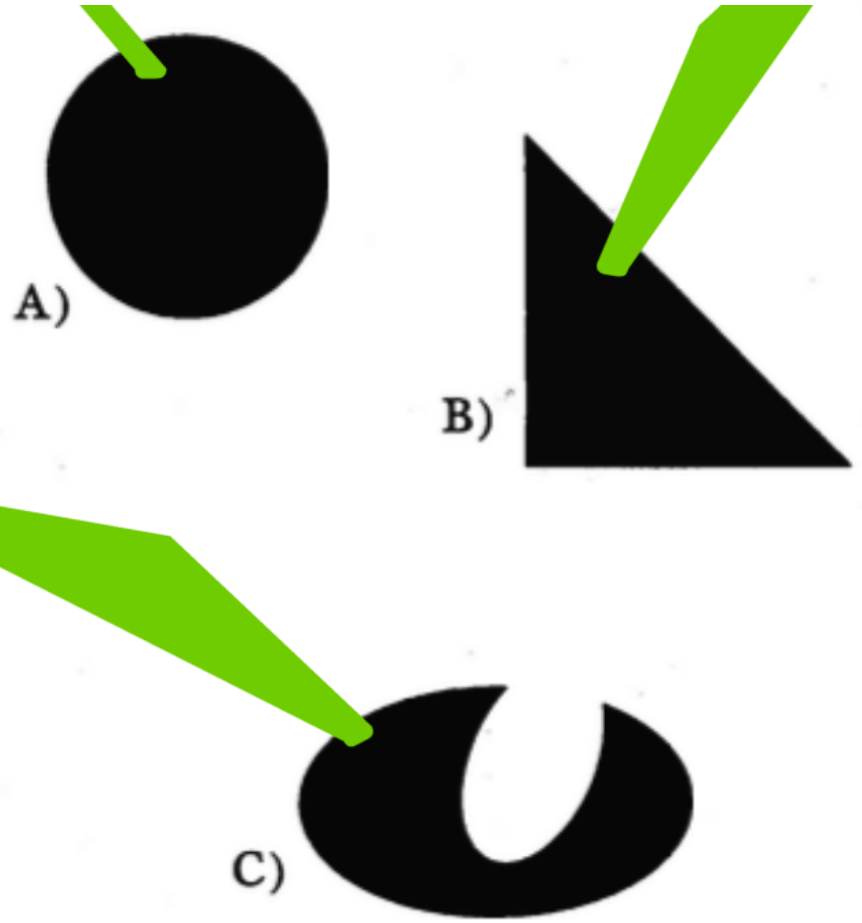
Any of these been getting in your way with the jigsaw?





ints!

straigl



ECT!

one that

netrical

Odd one out?

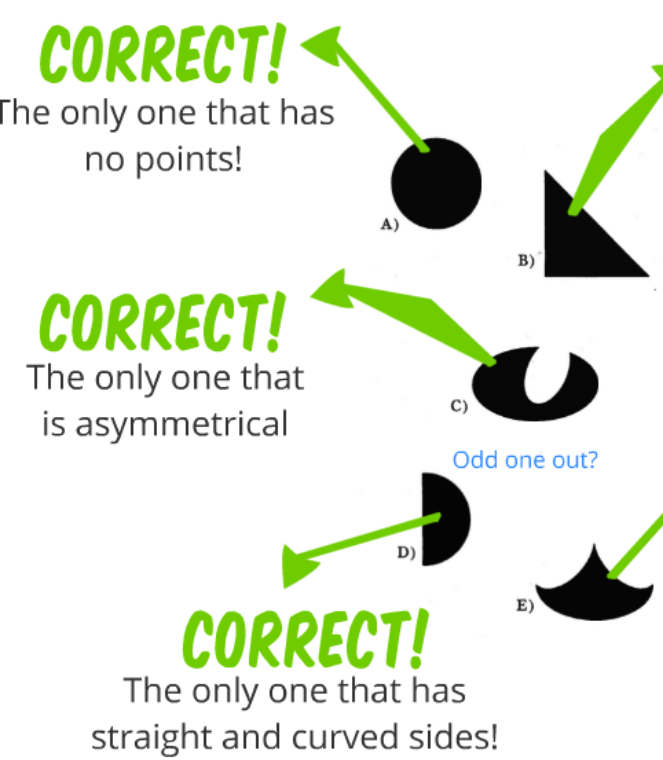
CORR

The only

looks like



CORRECT!



Formal education is where...



...you learn what questions to ask to probe your environment.

...you learn how to find information.

...you learn which ideas to pay attention to and how to think about these ideas.

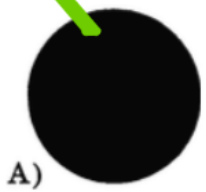
How did you do?

Education gives learners the concepts that they use to order and understand the world.

Do you find this type of activity a lot in schools or is our system geared towards teaching learners to find the 'right answer'?

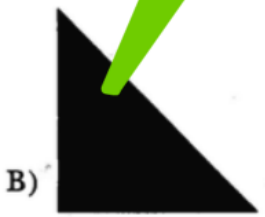
CORRECT!

The only one that has no points!



CORRECT!

The only one with all straight sides!



How did yo

CORRECT!

The only one that is asymmetrical



Odd one out?



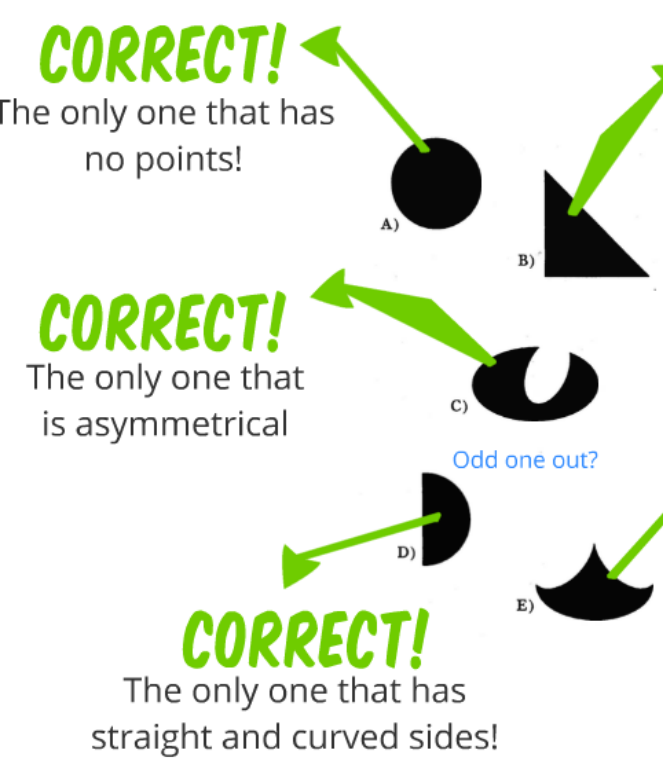
CORRECT!

The only one that looks like a projection of a non-Euclidean triangle in Euclidean space!



CORRECT!

The only one that has straight and curved sides!



Formal education is where...



...you learn what questions to ask to probe your environment.

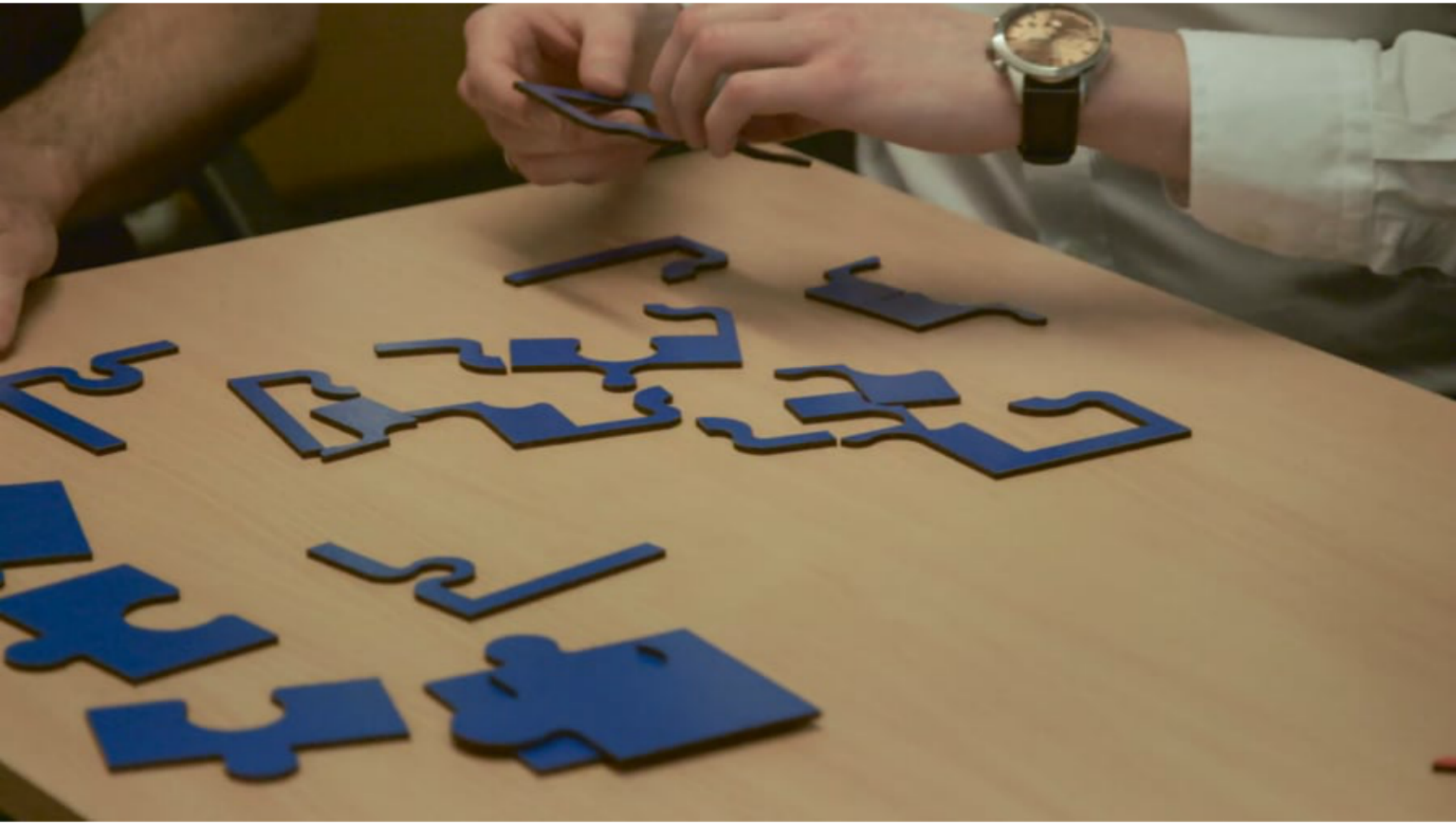
...you learn how to find information.

...you learn which ideas to pay attention to and how to think about these ideas.

How did you do?

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Roger von Oech's

Creative Whack Pack®



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Four roles within the creative process



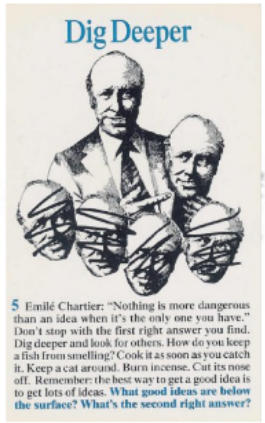
Each role oversees the four steps of creativity. The need to shift between different thinking methods is critical as we move between each role.

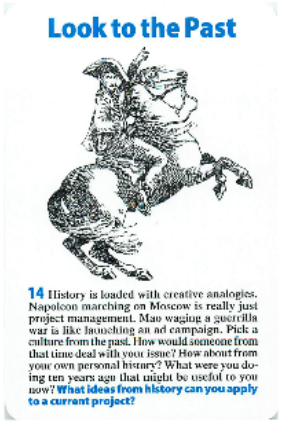


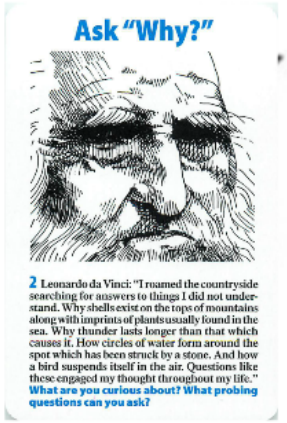
WHAT ASPECTS OF THE INNOVATION ENGINE COULD HELP US?

Your role for discovering new resources you'll use to create new ideas (Blue)









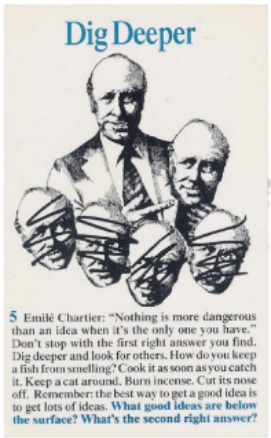


The explorer suit highlights places and ways to find new information

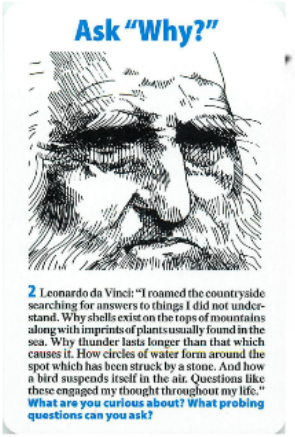
Your role for transformina your resources into new ide

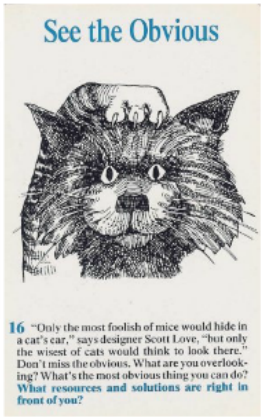
Your role for discovering new resources you'll use to create new ideas (Blue)











The explorer suit highlights places and ways to find new information

Your role for transforming your resources into new id

rmation

Your role for transforming your resources into new ideas. (Orange)

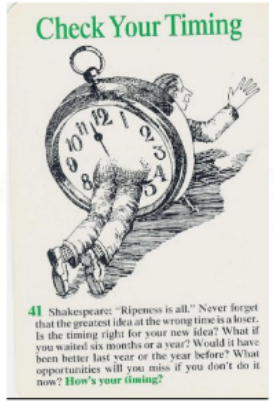


The Artist suit provide you with idea - generating techniques.

What type of thinking are we talking about here?

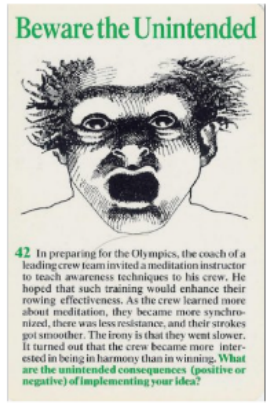
Your role for evaluating an idea and deciding what to do with it. (Green)

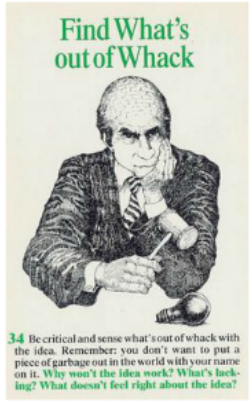






Judge

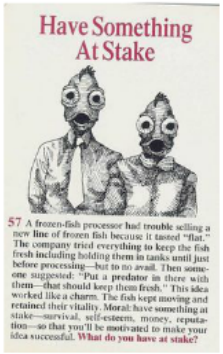


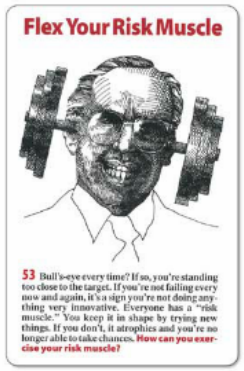


The Judge suit lends decision making advice.

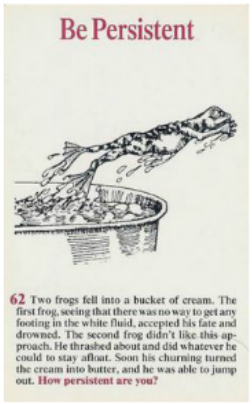
What type of thinking are we talking about here?

Your role for implementing your idea into new ideas. (Red)









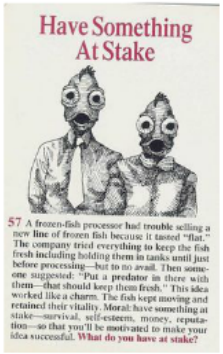


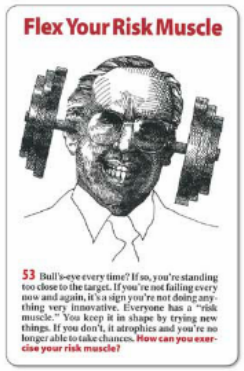
The Warrior suit gives you the 'kick' you need to get your ideas into action.


CAUTION
THIS SIGN HAS
SHARP EDGES
DO NOT TOUCH THE EDGES OF THIS SIGN
ALSO, THE BRIDGE IS OUT AHEAD

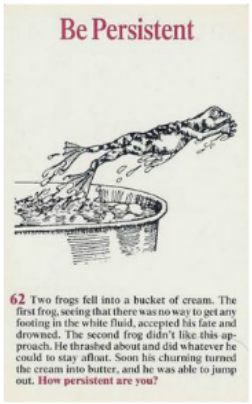

Meet James Kingston!

Your role for implementing your idea into new ideas. (Red)





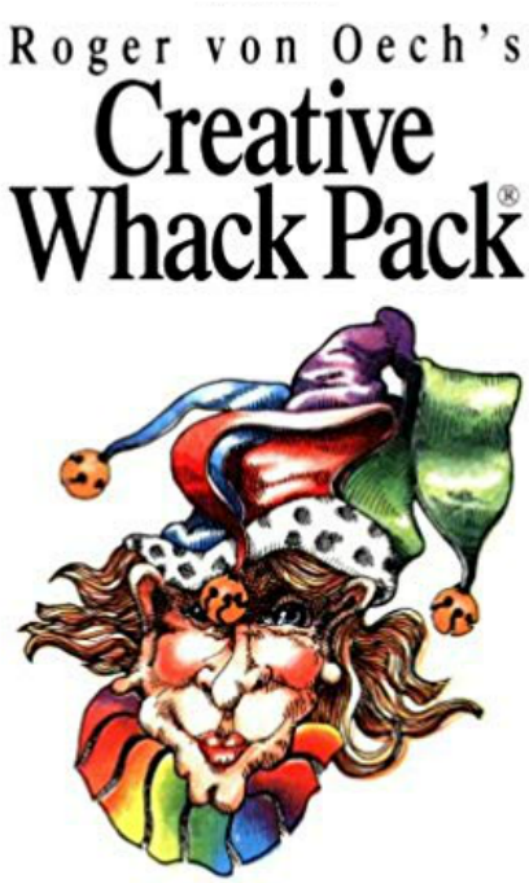






The Warrior suit gives you the 'kick' you need to get your ideas into action.

GUESS THE SUIT GAME!



Listen to the card description and try to guess the suit...get it right and the card is yours for your group to use!

Discovering resources, finding info

'Kick' to get ideas into action.



Idea generating

Decision making advice

Look to the Past



14 History is loaded with creative analogies. Napoleon marching on Moscow is really just project management. Mao waging a guerrilla war is like launching an ad campaign. Pick a culture from the past. How would someone from that time deal with your issue? How about from your own personal history? What were you doing ten years ago that might be useful to you now? **What ideas from history can you apply to a current project?**

PLEASE SHARE YOUR ASSUMPTIONS

'Old knowledge of how to be successful with Jigsaws'



This is a jigsaw and conventional 'jigsaw rules' apply

The coloured faces of the pieces are the 'right way u

WHY CHALLENGE THE RULES?

WHY RUN THE RISK OF LOOKING FOOLISH?

Because of Change...

...when things change and new information comes into existence, it's no longer possible to solve current problems with yesterday's solutions.

People are finding out that what worked two years ago won't work today...

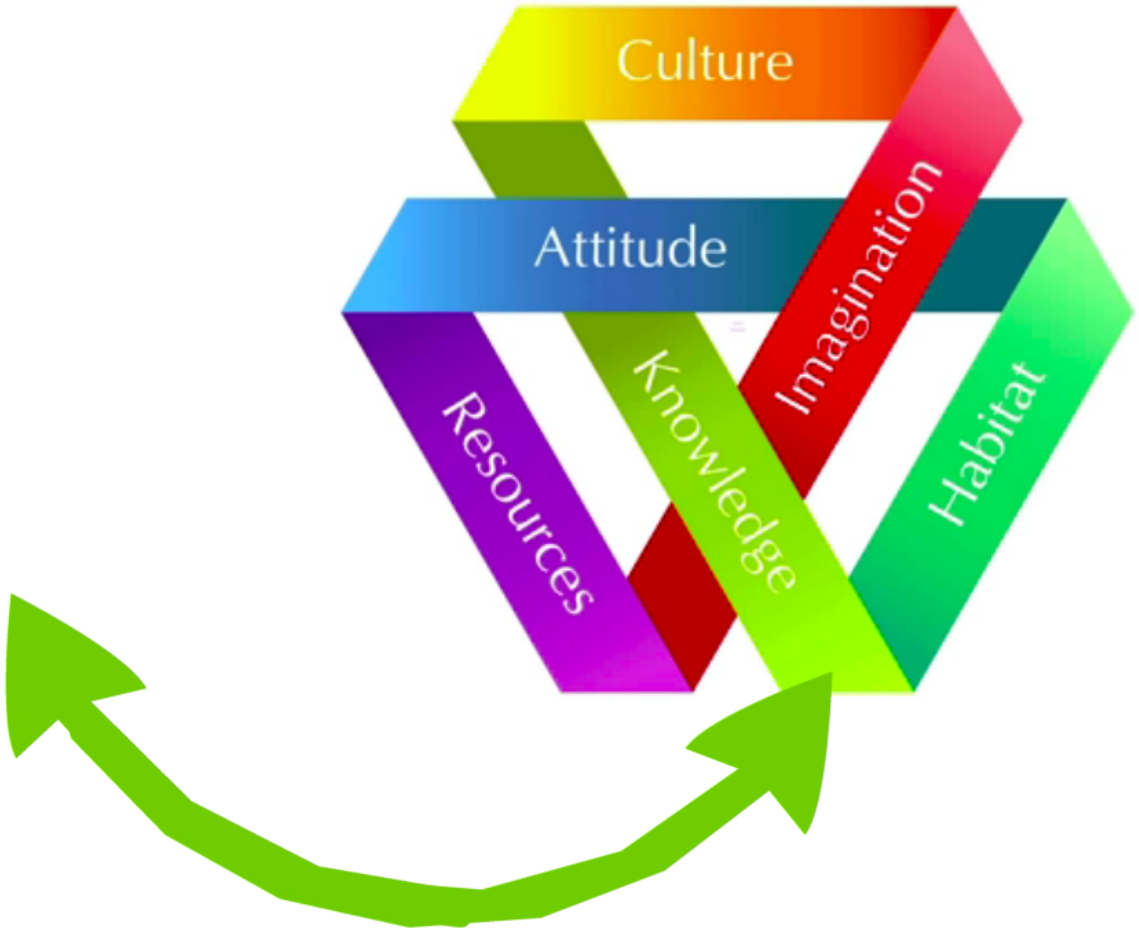
They have a choice, they can either moan that things aren't as easy as they used to be, or they can use their creative abilities to find new answers, new solutions and new ideas.

"Discovery consists of looking at the same

Look to the Past



14 History is loaded with creative analogies. Napoleon marching on Moscow is really just project management. Mao waging a guerrilla war is like launching an ad campaign. Pick a culture from the past. How would someone from that time deal with your issue? How about from your own personal history? What were you doing ten years ago that might be useful to you now? **What ideas from history can you apply to a current project?**



Roger says that some cards contradict each other...if our previous knowledge isn't helping us which card could?

Drop An Assumption



9 Columbus challenged the Spanish courtiers to stand an egg on its end. They tried but failed. He then hard-boiled one and squashed it down. "That's not fair," they protested, "you broke the rules." "Don't be silly," he replied, "you just assumed more than you needed to." **What can you let go of? What unnecessary assumptions can you eliminate?**

Look ba
'knowle

As a tea
challeng
assump

Inquisitive

- Wondering and questioning
- Exploring and investigating
- Challenging assumptions



Look back at your 'knowledge' list.

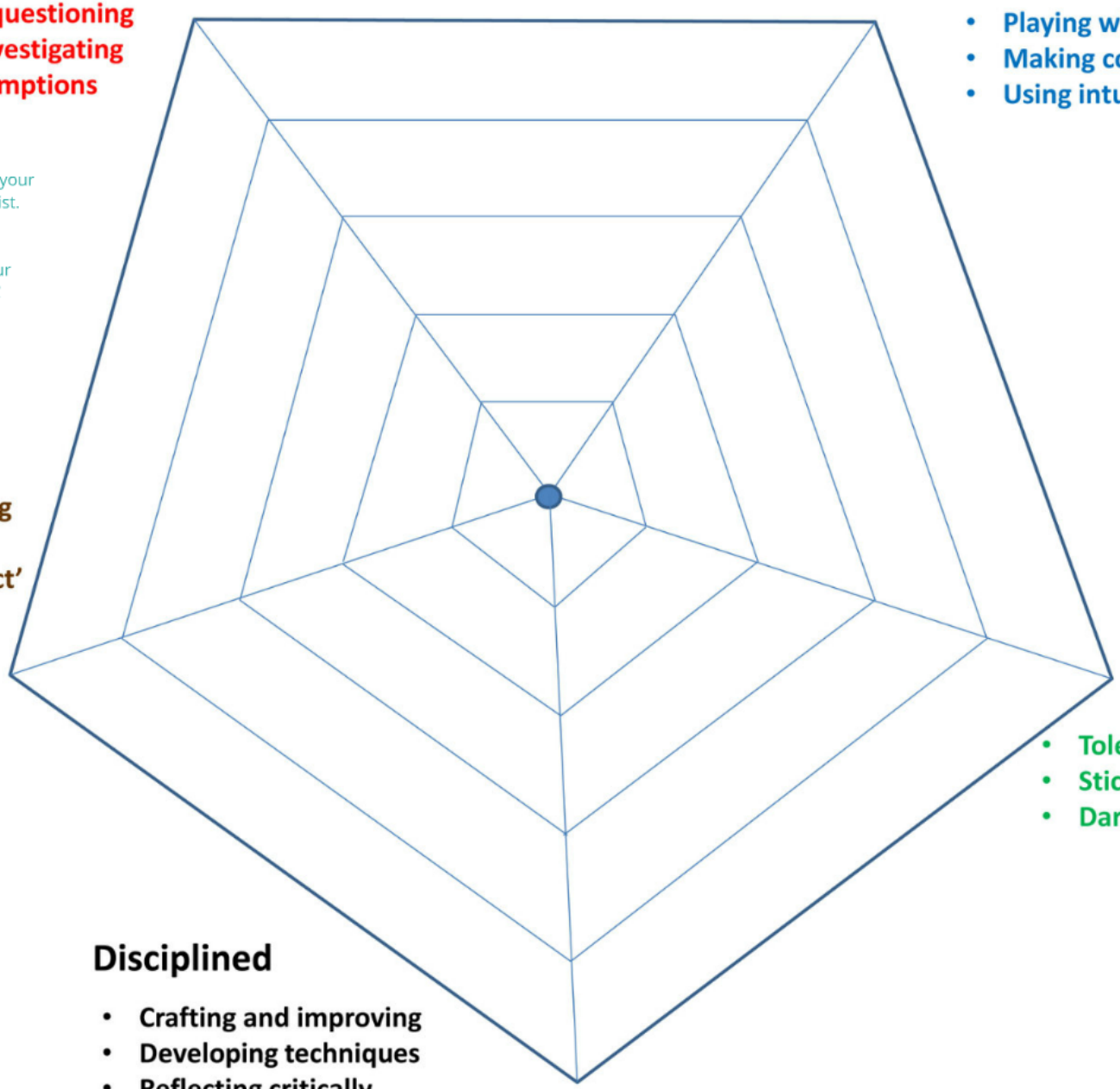
As a team challenge your assumptions!

Imaginative

- Playing with possibilities
- Making connections
- Using intuition

Collaborative

- Co-operating appropriately
- Giving and receiving feedback
- Sharing the 'product'



Persistent

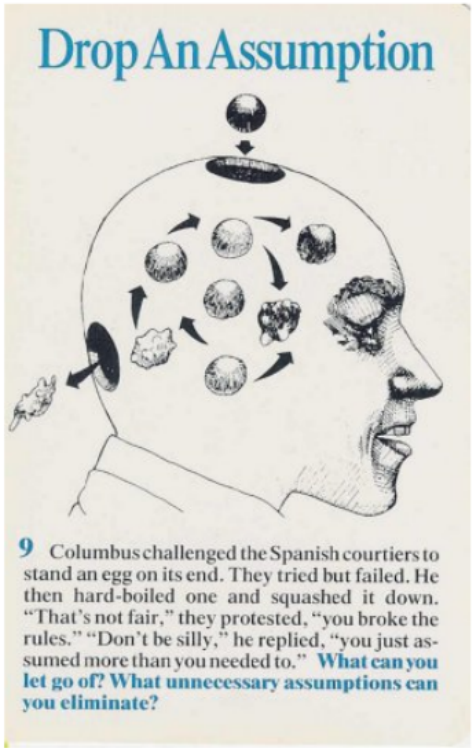
- Tolerating uncertainty
- Sticking with difficulty
- Daring to be different

Disciplined

- Crafting and improving
- Developing techniques
- Reflecting critically

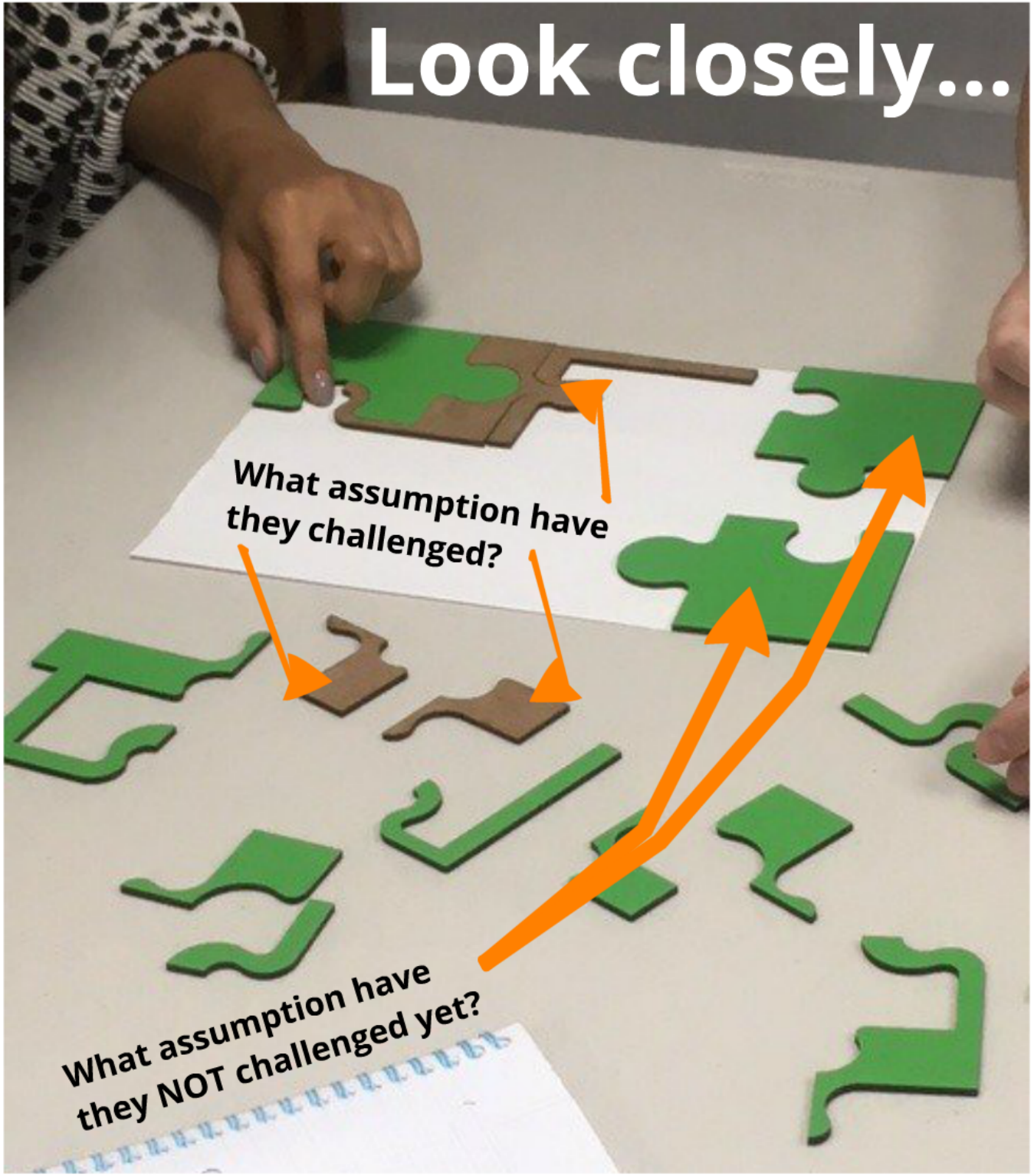
Inquisitive

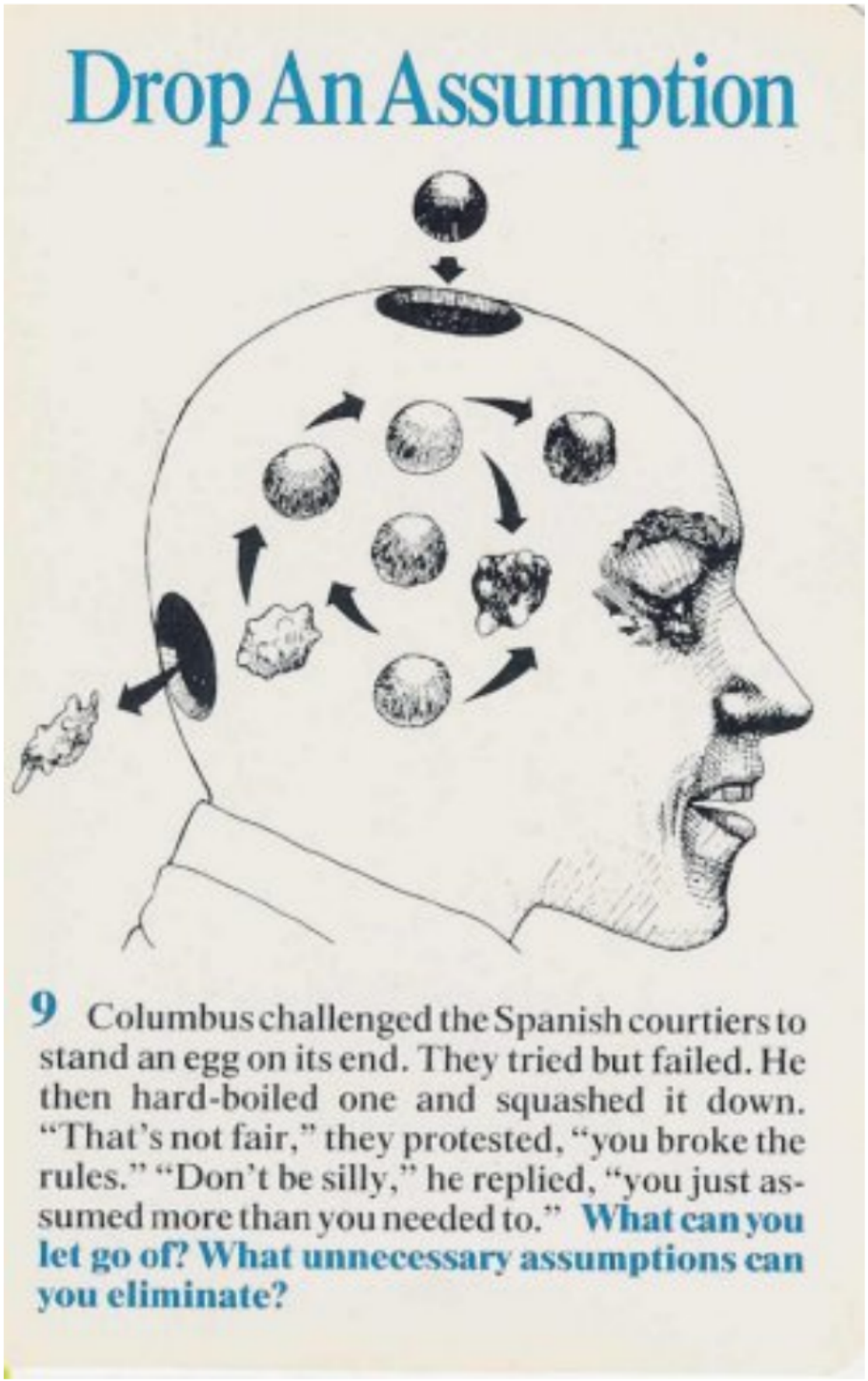
- Wondering and questioning
- Exploring and investigating
- Challenging assumptions



Look back at your 'knowledge' list.

As a team challenge your assumptions!


Look closely...
What assumption have they challenged?
What assumption have they NOT challenged yet?



Look back at your 'knowledge' list.

As a team challenge your assumptions!

PLEASE SHARE YOUR ASSUMPTIONS

'Old knowledge of how to be successful with Jigsaws'



This is a jigsaw and conventional 'jigsaw rules' apply.

The coloured faces of the pieces are the 'right way up'

The non coloured side is the 'wrong side'.

Jigsaws have straight edges and are usually square or rectangular.

There are four right angled pieces so they are likely to be the corners.

The puzzle is two dimensional.

There is an acceptable solution and we will be able to find it!


CHALLENGING
ASSUMPTIONS



Creativity can solve almost any problem. The creative act, the defeat of habit by originality, overcomes everything.

— George Lois —

Prifysgol Cymru
Y Drindod Dewi Sant
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Trinity Saint David

Yr Athrofa
Institute of Education
Addysg i Gymru Education for Wales

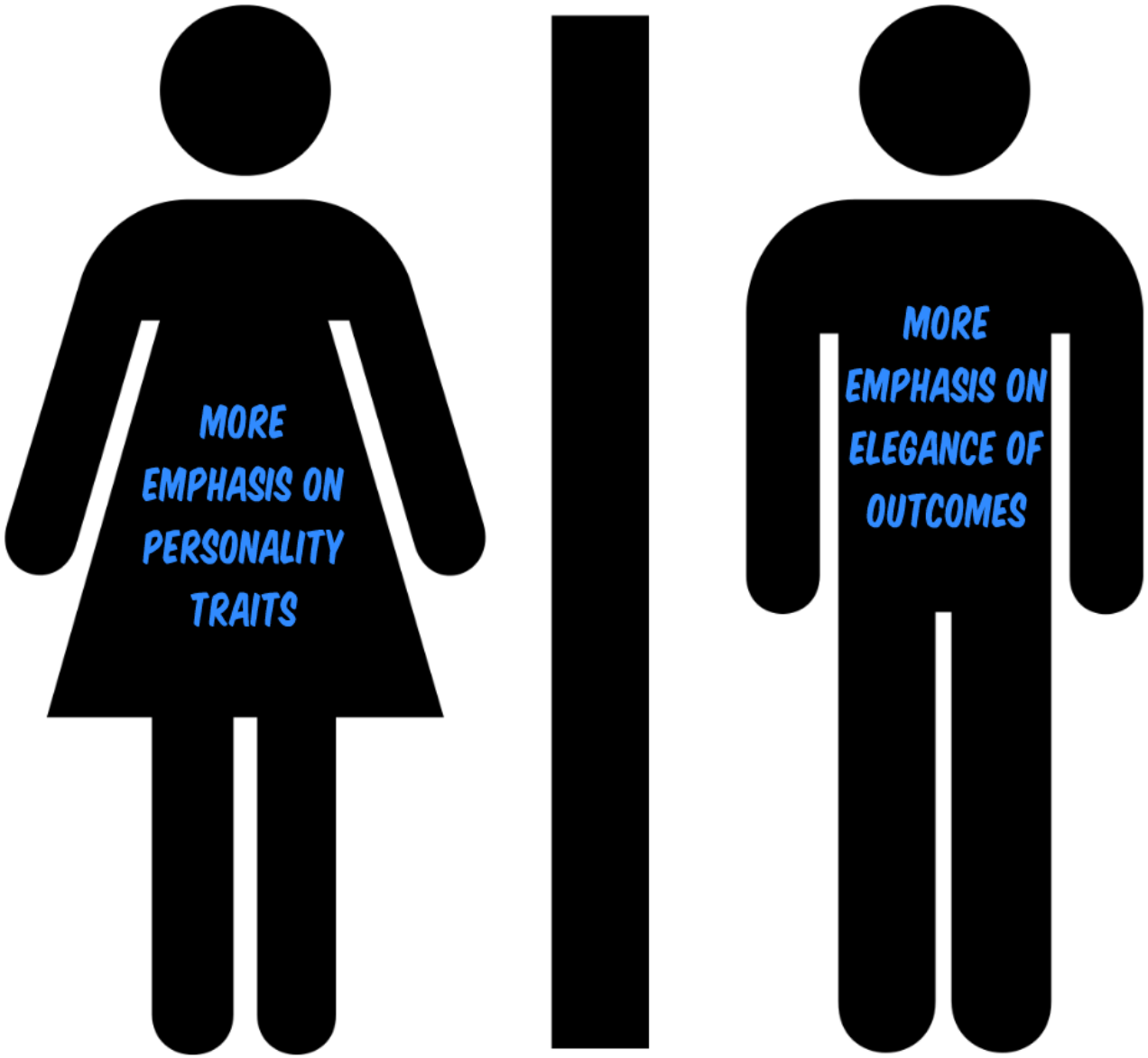
ECAD6011

Teaching for Creativity...

?

Oh man, you are going to be cursing me in around 10 mins and then for the rest of the session!

There are gender differences between teachers when they assess creativity



Fryer, M, Creative teaching and learning, Paul Chapman Publishing Ltd, London, 1996