



Inquiry-based Learning Model for Spatial Thinking

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the definition



Inquiry-based learning (IBL) is a project-oriented pedagogic strategy based on constructivist and socio-constructivist theories of learning (Eick & Reed, 2002)

involves questions,
problems, investigation

problem-based
learning

Students will identify and
research issues and
questions to develop
their knowledge or
solutions



How?



Five phases

Question Eliciting
Activities

Active Investigation

Creation

Reflection

Discussion



Question Eliciting Activities



Provoke curiosity

Attract the
attention of
the students in
fun ways!



Define questions from current knowledge

Ask questions which will let you
know your students' existing
knowledge



Active Investigation



Propose preliminary explanation or hypotheses

Set the hypotheses you will ask your students, later, to investigate

Plan and conduct simple investigation

Design the investigation in a way that your student's can work independently on that day with your guidance



Creation



Gather evidence from observation



Your students will solve the investigation
you have prepared for them
by collecting data



Discussion



Explanation based on evidence

Students will explain the results of their investigation using scientific evidence

Consider other explanations

Make clear that your students have completely comprehended the concepts you have presented



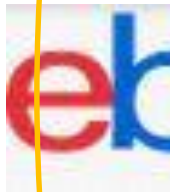
Reflection



Communicate explanation



Your students should find a way or you can guide them to present their work.
A good idea is to advise them to be creative!



- Categories
- Vehicle Parts & Accessories (15,058)
- Sporting Goods (5,151)
- Home, Furniture & DIY (7,516)
- Clothes, Shoes & Accessories (5,134)
- Jewellery & Watches (5,005)
- Collectibles (5,003)
- Mobile Phones & Communication (3,245)
- Antiques (2,336)
- Books, Comics & Magazines (2,441)
- Toys & Games (713)
- Crafts (565)
- Business, Office & Industrial (555)
- DVDs, Films & TV (545)
- Computers/Tablets & Networking (537)
- Cars, Motorcycles & Vehicles (195)
- See all categories

- Brand see all
- Condition see all
 - New (50,527)
 - Used (5,311)
 - Not specified (4,065)
- Price
 - £ to £ >>
- Format see all
 - All listings
 - Auction
 - Buy it now
- Item location see all
 - Default
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 - European Union
 - Worldwide
- Delivery options see all
 - Free P&P
- Show only see all
 - Completed listings
 - Sold listings
- More refinements...
- Matching eBay Shops
- e-Cell Global (2,779)
- Wholesale Stockists (1,954)

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- Condition see all
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Sort: Best Match View:

Postage to Greece

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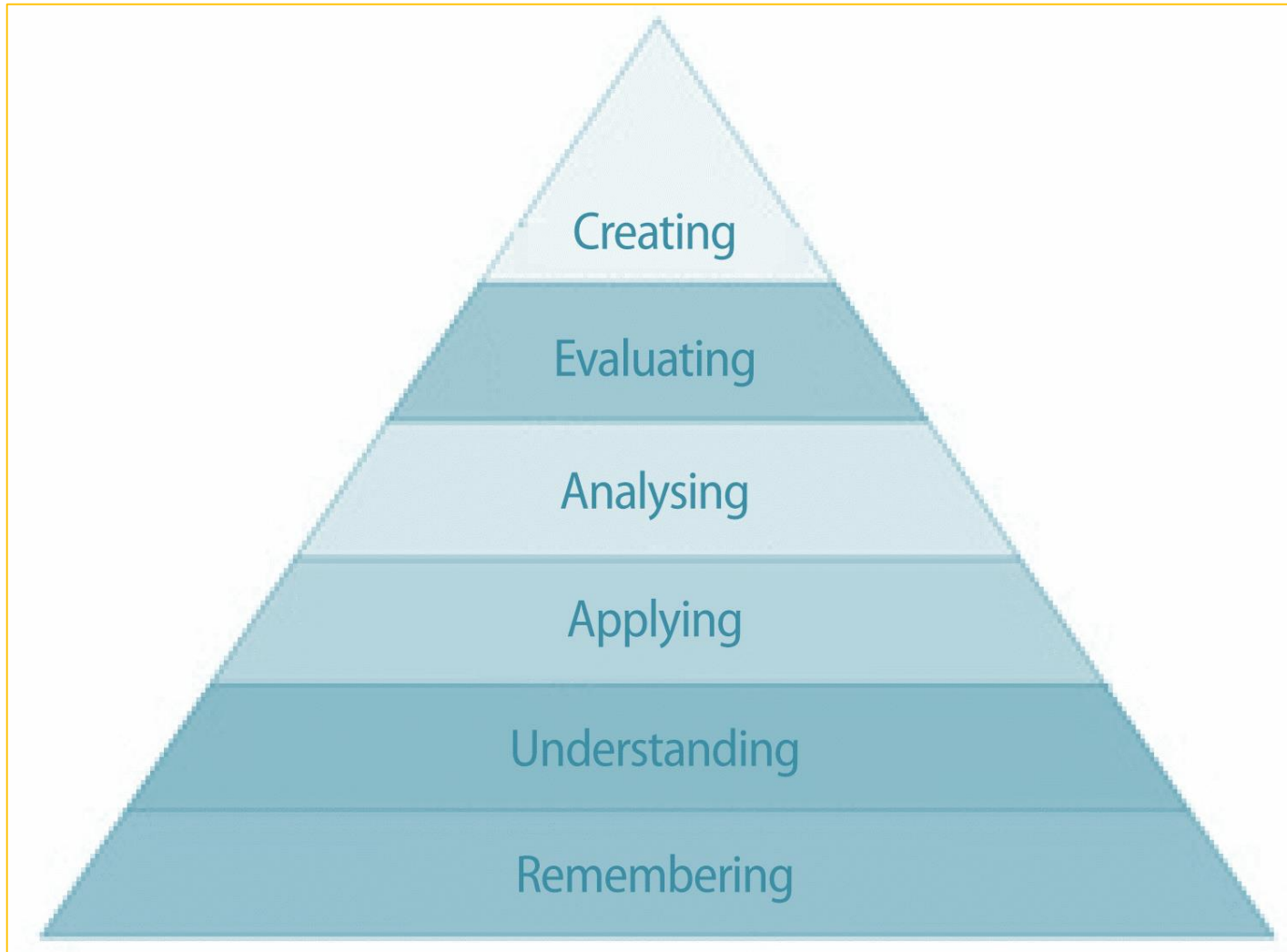
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Educational objectives





Educational objectives



Knowledge

- Factual
- Conceptual
- Procedural
- Meta Cognitive

Cognitive Domain

Process

- Remember
- Understand
- Apply
- Think critically and creatively

Affective Domain

- To pay attention
- To respond and participate
- To recognize values
- To form and follow a system of values

Psychomotor Domain

- To imitate and try
- To perform confidentially following instructions
- To perform independently, skillfully and precisely
- To adapt and perform creatively

