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ACTIVE LEARNING

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Overview

- Generic Skills
- Differentiation
- Bloom's Taxonomy
- Active Teaching Model
- PAR Model
- VAK model
- Relevance to the Screen Generation

Generic Skills

- Synthesis
- Evaluation
- Analysis
- Study Skills

How to teach them?



Synthesis

- Question Phrasing
- Explaining tasks: what, how, when, where
- Link-making questions
- Problem-solving
- Devising applications or choosing them from a list
- Teaching by asking
- Compare and contrast two solutions and/or approaches

Evaluation

- Spoof assessment
- Self-assessment
- Peer assessment
- Proofreading



Analysis

- Multiple representations of an idea
- Establishing key points
- Explain the why



Food for thought

- What generic skills are relevant to your subject?
- What do students have repeated difficulty with?
- What does the standardised assessment require of them?
- Does this mean they have learned what they need?

The Process

- What is the learning process for each of these generic skills?
- How could you make this process clear?
- How can you get students to improve the skills?
- How can you identify faults and weak links in the process?

The Process

- How can you make the characteristics of a good work clear?
- How can you give effective and constructive feedback?
- How can you give students a more corrected practice in the skill?

Example: Report Writing

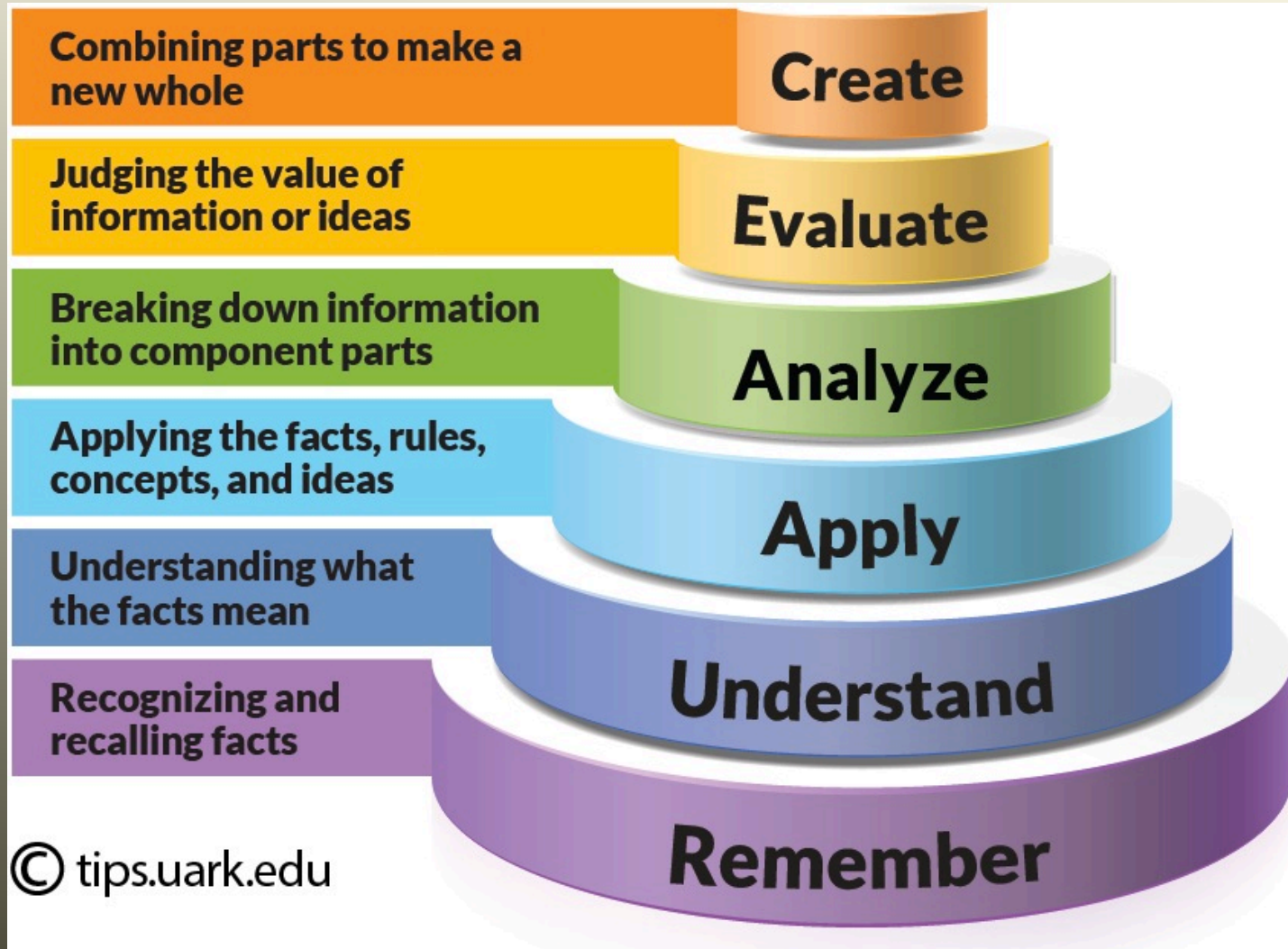
- Read, think, plan
 - Research and brainstorm
 - Check relevance
 - Classify
 - Draw conclusions
 - Plan, write and report
 - Proofread
 - Present
- } Synthesis
- } Analysis
- } Evaluation
- } All in one

Screen Generation



Differentiation

- What is Differentiation?
An approach to teaching which ensures all students learn equally well despite their differences
- What stops us from differentiating between students?
Subjectivity, unfit assessment, separate areas of study, unclear boundary between interest and ability...



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Bloom's Taxonomy

- Mastery Tasks
- Developmental Tasks

Bloom's Taxonomy

Mastery Tasks: Examples:

- *Recognise and name the main constituents of a simple cell.*
- *Copy and label a diagram of a hydroelectric power station*
- *Find the cost of sending a fax in this country and abroad.*
- *Express one figure as a percentage of another using $(A/B) \times 100$*
- *List ten irregular verbs*

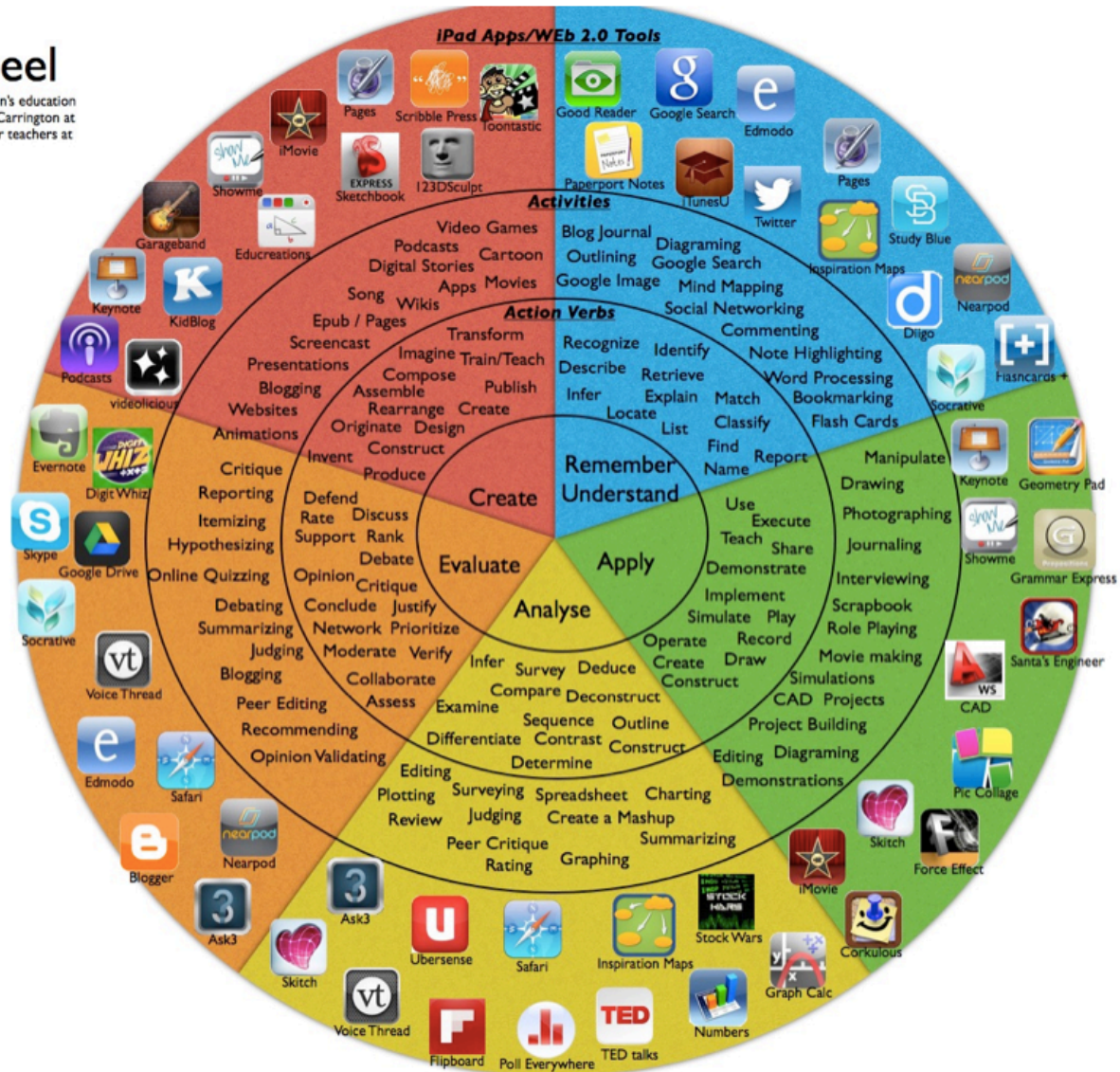
Bloom's Taxonomy

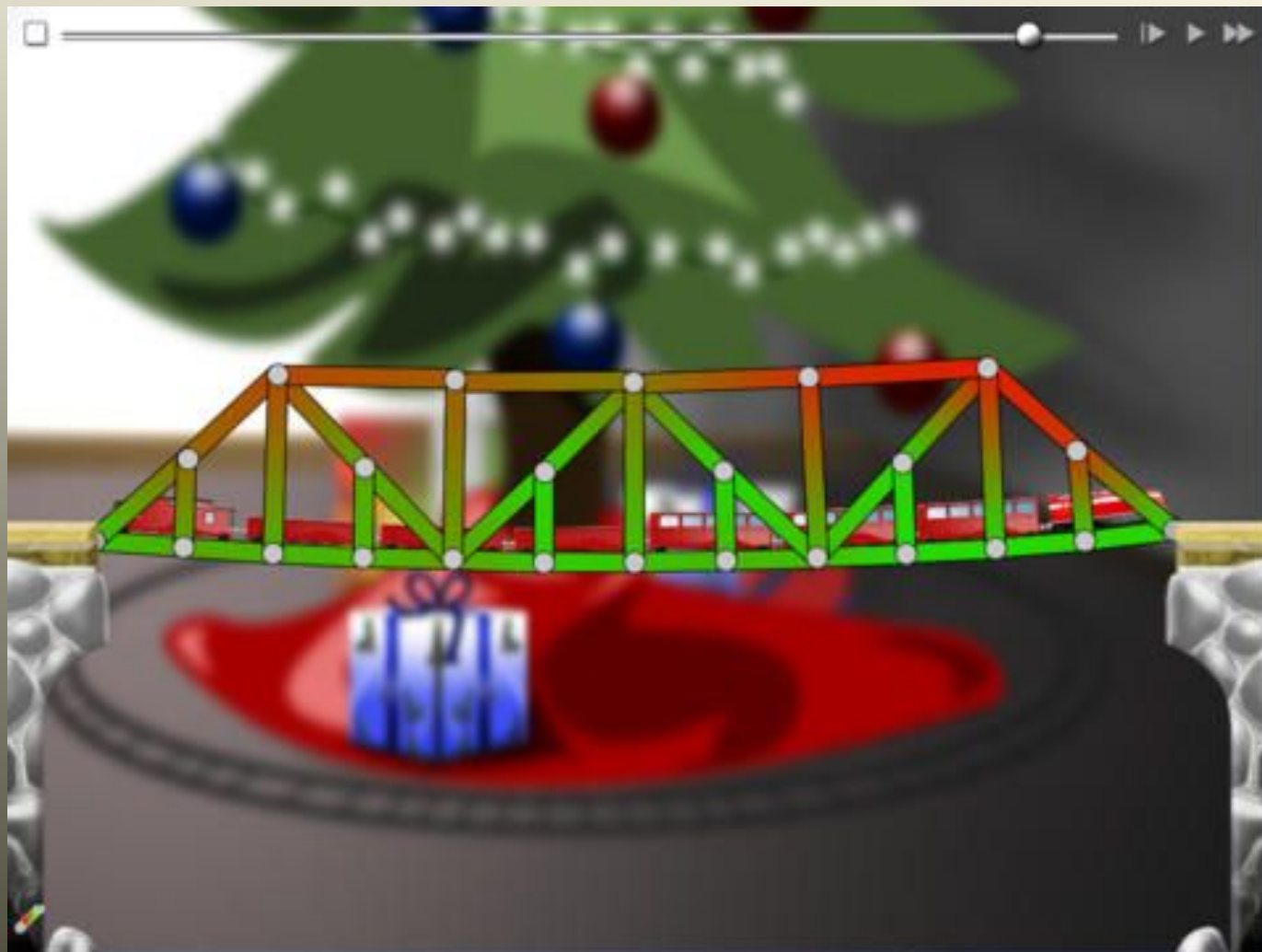
Developmental Tasks: Examples:

- *Write a clear scientifically argued lab report*
- *Evaluate the importance of high employment in Western societies*
- *How did the early life of ML King influence his political thinking?*

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iPadology Wheel

Originally discovered on the website of Paul Hopkin's education consultancy site mmiweb.org.uk adopted by Allan Carrington at the University of Adelaide and further modified for teachers at Zeeland Public Schools.





Active Teaching Model

- Daily Review
 - *Review of concepts and skills associated with yesterday's*
 - *Collect and evaluate homework assignments*
 - *Ask several mental computation exercises*
- Development
 - *Briefly focus on prerequisite skills and concepts*
 - *Focus on meaning and deliver in an engaging manner*
 - *Assess students' competence*

Active Teaching Model

- Seatwork
 - *Provide uninterrupted practice*
 - *Momentum – create and sustain involvement*
 - *Accountability – check students' work*
- Homework
 - *Assign one regularly*
 - *Should require at least 15 mins of work to be done at home*
 - *Should include at least two review problems*

Screen Generation



Screen Generation: New Approaches



Screen Generation:

How do we fit in?





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Thank you!

