

Resource 6 (Activity 4)

Creative And Critical Thinking Cards (1 of 2)

Creative Thinking

Flexibility	Originality	Brainstorming
Metaphors	Imagery	Varied outcomes
Possibility	Open-ended	Diffuse
Able to change	Adapt	Unique
Scattered	Open minded	Comparison
Use an example	Word picture	Different results

Resource 6 (Activity 4)

Creative And Critical Thinking Cards (2 of 2)

Critical Thinking

Classifying	Comparing	Patterns
Sequencing	Planning	Cause and effect
Probability	Conclusion	Focussed
Patterns	Patterns	Reasoning
Classifying	Put in order	Comparing
Advantages and disadvantages	Most/least likely	Good and bad
Make up	Sorting	

Resource 7 (Activity 4)

Exercises Involving Creative Thinking

1. Draw nine dots, three in each line, to make a square. Join up all nine dots using four lines without lifting your pencil from the page!
2. Emily and Erin were both born on the same day of the same month of the same year to the same mother and the same father yet they are not twins. How is that possible?
3. Find at least five more original uses for each of the following items:
 - a. Cardboard box
 - b. Nail
 - c. Old newspaper
 - d. Towel
 - e. Lots and lots of broken rubber bands
4. Three boxes are presented to you. One contains gold, the other two are empty. Each box has a clue about its contents written on it, but only one message is telling the truth and the other two are lying. Which box has the gold?

**The gold is
not here**

**The gold is
not here**

**The gold is in
the second box**

5. a. Here are eight random words:

GORILLA

SAUCEPAN

BABY

CUP

TABLE

BOOK

SANDWICH

GARAGE

Classify them into two groups, and write down what each group has in common that made you decide to put them together.

- b. Now compare your answer with someone else to see what different ideas you had when deciding how to group, or classify, the objects. You should find that different people invent different connections between objects. There are no wrong answers!

Resource 8 (Activity 4)

Approaches To Problem Solving

This sheet shows some approaches to problem solving.

To Promote Creative Thinking

- Assume that there is more than one right answer.
- Consider what would be the ideal solution if there were no obstacles.
- See uses for an object, other than the obvious one.
- Be open-minded.
- Play. Experiment without knowing what could happen.
- Ask questions.
- Challenge the facts.
- Be positive.
- Keep trying.

To Promote Critical Thinking

1. **Analyse the problem.** What is the problem?
2. **Generate possible solutions.** What could work?
3. **Choose one possible solution and try it out.** How will I do it?
4. **Evaluate how successful it was.** What worked? What could improve it?

Resource 9 (Activity 4)

A Critical Thinking Approach

The steps described below outline a methodical approach to problem solving which helps you to work through a situation logically and effectively without missing any important facts or influences. It also forms a framework in which to apply your creative thinking abilities!

1. Knowledge

What do I know?

What factual information do I have?

2. Comprehension

What do I understand from these facts?

What consequences, or meanings, are linked to these facts?

3. Application

How can I apply this information to a new situation?

Is there any problem that I can solve?

How could I do this?

4. Analysis

Can I explain any patterns or trends in what happened when I applied my idea?

5. Synthesis

Can I come up with possible 'what if' scenarios that apply to the situation being considered?

Can I come up with some new ideas to apply to the situation being considered?

6. Evaluation

Can I describe what is good or successful, and what is not so good or successful, about the suggested solutions?

Can I make suggestions to improve the situation?

Can I offer alternative approaches or other questions to consider?