



Creative and Critical Thinking Techniques

Creative Thinking

- **Creative thinking** involves...
 - Thinking of many possibilities
 - Using different points of view
 - Thinking of new and unusual possibilities
 - Generating many alternatives



Also called
brainstorming
or divergent
thinking

Creative Thinking

Types of Brainstorming or Creative Thinking

Free Wheeling

- Group members call out ideas spontaneously
- Scribe records the ideas as they are put forth

Round Robin

- Leader or scribe asks each member, in turn, for an idea
- Members may pass on any round

Slip Method

- Leader asks members to write ideas on small slips or index cards
- Ideas are collected, recorded, and organized

Creative Thinking

- Creative or divergent thinking **GROUND RULES—**
 - **DEFER JUDGMENT** Keep an open mind to all possibilities
 - **SEARCH FOR MANY IDEAS** Emphasize generating a large quantity of ideas for later analysis
 - **ACCEPT ALL IDEAS** Include ideas that may appear strange or impractical
 - **MAKE THE GROUP “STRETCH”** Go beyond obvious, practical, and safe ideas
 - **TAKE TIME TO LET IDEAS SIMMER** Allow the group time to think and digest the ideas
 - **SEEK COMBINATIONS OF IDEAS** Encourage the making of new associations
 - **DO NOT ATTACH NAMES TO IDEAS** Avoid making the ideas personal

Critical Thinking

■ Critical thinking

involves...

- Comparing and contrasting many ideas
- Improving and refining promising alternatives
- Challenging the merits of an idea
- Reducing the list of ideas through discussion and analysis
- Preparing to select a course of action



Critical thinking is also called convergent thinking

Critical Thinking

- Critical or convergent thinking **GROUND RULES**—
 - **BE DELIBERATE** Take the time to be thorough and systematic in the analysis
 - **BE EXPLICIT** Attempt to be clear and specific during the analysis
 - **AVOID PREMATURE CLOSURE** Be sure to give ideas fair consideration
 - **DO NOT AVOID TROUBLE SPOTS** Bring difficult issues into the open for discussion
 - **BE ANALYTIC** Do not be afraid to use tools that help the group analyze and display data