A Beginner's Guide to Learning Circles

Chapter 4a A beginner's guide to complexity theory.

available at www.nald.ca/learningcircles/bg.htm

by Tracey Mollins with notes from Janice Brant, Arthur Bull, Guy Ewing and Tracy Westell When dealing with **simple systems**, such as cooking by following a recipe, the recipe (the formula) is essential.



The recipe is like a map and if we follow it, we will all end up in the same place. The recipe has been tested to make sure that the result will be the same every time and that we can get that result even if we are not expert chefs.



Recipes are designed to produce a standard result - the best recipes give good results every time.



When dealing with **complicated systems**, such as sending a rocket to the moon, the formula (or recipe) - or the series of formulae - is important ...



but ...

the formula is not enough ...

high levels of expertise in a variety of fields are also necessary for a good result.



Sending one rocket increases the probability that the next mission will be a success.

In many ways, rockets are similar to each other and because of this we can be a relatively sure that they will act in similar ways if we apply the formulae correctly.

