

## Appendix I

### Lesson Plan-Brainstorming

VIII Std                      Topic: North America: Agriculture

Geography                      Date : 30-9-1975

Problem: List ideas, how agriculture in North America is profitable.

The students already know that in India, more than 80 percent of the people are involved in agriculture, whereas in America, the people doing agriculture are very less. They have already learned the natural resources of North America. They also know the principles of Brainstorming. Now the teacher asks for the student's suggestions for the above problems. He writes down the suggestions given by the students on the black board.

- A. Since they practise extensive agriculture, it is profitable for them.
- T. Yes. Allright.
- B. They make use of machines in agriculture. It is saving time and money.
- T. Yes.
- C. They use fertilisers more.
- D. Good transportation facilities are available.
- T. Yes They could move the fertiliser and the products economically.
- E. They have well knitted irrigation system. They don't have water scarcity.
- T. Good
- F. They are rich farmers. They can do what they like.
- T. O.K.

- G. Destruction from pests or other rodents is little. They have controlled them to a large extent.
- T. That is true. In India nearly 20 percent of our products are being wasted in a year by them.
- H. Scientific methods are applied for cultivation.
- T. Correct. Only for cultivation?
- I. Scientific methods applied to transportation, storing preserving, etc.
- T. Yes, Yes.
- J. They do mixed farming.
- T. Good
- K. The farmers are educated. They follow the instructions given by the agriculture department.
- T. Fine.
- Silence for a while.
- T. What about seeds?
- L. Better seeds are used.
- M. Because they follow rotation of crops, the lands remain fertile. Hence it is profitable, for them.
- T. That is also a point.
- N. A single agriculturist could cultivate more number of acres. Hence, it is profitable for them.
- T. Nice.
- Silence
- T. Now you have given some good points. Let us now discuss it.

#### Evaluation Session

From the points written on the black board the class analyses and evaluates its merits.

- T. How about 'the extensive agriculture', the first point.
- S.. It is right. Only a few people take to the up agriculture and they produce enormously. Hence it is profitable for them.
- T. Yes. (He accepts the answer and mark a tick near the point on the black board. He asks the students to note down the accepted points in their note books. He goes to the next point)  
The next point is mechanised agriculture.
- S. By making use of machines, the Americans save time, money and labour in organisation.
- T. Accepted. (makes a tick mark) (Like this he proceeds quickly with all the points. If the points are irrelevant or not right, the class after discussing its merits discards them. Finally the accepted suggestions are grouped or arranged according to its merit. In this problem the accepted points will be:
- (1) extensive agriculture.
  - (2) mixed farming
  - (3) mechanised agriculture
  - (4) rotation of crops
  - (5) scientific methods of cultivation
  - (6) scientific ways of preservation and transportation of agricultural products
  - (7) use of fertilisers
  - (8) use of pesticides
  - (9) educated farmers
  - (10) use of better seeds