

Strategies:

1

Words beginning with the  
same Letter

य → प

उ → र

ल → ल

म → म

same starting letter  
letter repeating  
sound repeating }

मनुष्य  
(man)

मीन  
(rain)

भोजन  
(enjoyable)

मगरमच्छ  
(crocodile)

मटर

मेर  
(pehen)

मैला

मेज  
(table)

मिठा  
(boy)

मिष्ट

मेमचंडी  
(candle)

मिग  
(mug)

मसल  
(firetouch)

मे  
(me)

मिट  
(mud)

गुथ  
(chariot)

गुप्ता

गुड  
(night)

गमडा  
(road)

गुग  
(color)

गुहा  
(cay)

गुमी  
(rope)

गुहा  
(study)

गुध  
(tree)

लेख  
(essay)

लिखाई  
(writing)

लेखनी  
(wood)

लेड  
(adium)

लेख

लेखा  
(tail)

लेखला  
(dear)

लेखन  
(cost)

लेख  
(find)

लेख  
(mud)

लेखा  
(take)

लेख  
(hide)

यतीर  
(tower)

ययीर

यय  
(samman)

यानी

यडीला  
(wessel)

यडाला  
(mug)

यम  
(cattle)

यंधा  
(fan)

यिगा  
(love)

युग  
(fall)

2

Rhyming words  
→ without images

(for learning)

→ English Speaking Practice (Talk English)

→ ઠંઘ, મઝ, મંઘ, યંઘ, રંઘ

→ પિઆર, મઝિઆર, દિઆર, ડિઆર, ચિઆર,  
મદાર, રઝાર, ગધિઆર

→ આરલ, ઘરલ, મરલ, અરલ, રૂરલ

→ આમ, મિઠામ, યદમ, યટમ, યરદમ,  
ગમ, રામ, તમ, ઢમ, મામ, અમલગમ,  
ઉદામ, રામ, મંડિઆમ, ડુદામ, યિઆમ,  
રલમ, અરામ

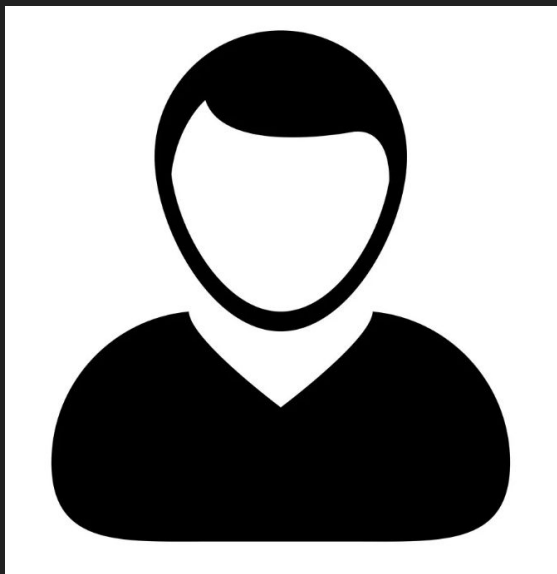
→ ઠીલા, ડીલા, મમરીલા, ડુદરીલા, મમરીલા,  
મઠધીલા, નગિરીલા, તરીલા, અદધીલા, યડીલા,  
દુરડીલા, નેમીલા, મરીલા, રંગીલા, તસીલા,  
ધીલા

→ યલ્લા, દલ્લા, ફલ્લા, અલ્લા, ફલ્લા, ગલ્લા, ડલ્લા,  
યલ્લા, રલ્લા

3

Familiar words  
→ without images

(for learning)



ਅੰਗਰ

4

Rhyming words  
→ with images





ਗੁਲਾਬ



ਜੁਰਾਬ

ਗੁਲਾਬ

ਖਰਾਬ

ਤਲਾਬ

ਜੁਰਾਬ

ਕਿਤਾਬ

ਪੰਜਾਬ

Familiar words

→ without images

→ with repetition

ਜਤਿਨ

(Jatin)

ਸਾਹਰੁਖ

6

# Repetition & Easy to complex

# ਬਿਸੇਸ

[illegible]



A man with dark hair, wearing a green and white checkered shirt, blue jeans, and light-colored sneakers, is sitting in a meditative pose on a large, flat stone slab. He is outdoors, with a large, tall, thin stone standing behind him to the left, and two other large, rounded stones behind him to the right. The background is filled with dense green foliage and trees. The ground is a mix of dirt and grass.

ਰਿਤੁਰਾ

[illegible]

[illegible]

# ਧਾਰਮਿਕ

[illegible]

ਰਿਤੁਰਾ

7

# 1. List of words

1. List of words  
→ cover each letter

# 1. List of words

→ cover each letter

→ repetitive sound

# 1. List of words

→ cover each letter

→ repetitive sound

→ interesting

# 1. List of words

- cover each letter
- repetitive sound
- interesting

# 2. Pattern for repetition



# 1. List of words

- cover each letter
- repetitive sound
- interesting

# 2. Pattern for repetition

- every word repeated 5-6 times

# 1. List of words

- cover each letter
- repetitive sound
- interesting

# 2. Pattern for repetition

- every word repeated 5-6 times
- regular intervals



ਬੁਲਬੁਲ

(bulbul)

बुलबुल

(bulbul)

ਬੁਲਬੁਲ

# Analysis

- We focussed on teaching the letters of the Punjabi Language
- Learners grasped the letters.

S. no.	Participants	Time taken (in min)	No. of letters learned	Time to learn a single letter (min)
1	A	3	2	1.50
2	B	4	3	1.34
3	C	4	4	1.0
4	D	2	3	0.67
5	E	5	4	1.25
6	F	2	2	1.0
7	G	2	1	2.0
8	H	2	3	0.67
9	I	4	5	0.8
10	J	3	6	0.5

- In this experiment we focussed on teaching through rhyming words without images

**Table 1.1** Observations of test conducted for 1 sub-dataset comprising of 10 words with 10 individuals

S No.	Name	Time (min)	No. of words retained
1	A	1:02	8
2	B	1	5
3	C	1:16	6
4	D	1:27	8
5	E	1:15	7
6	F	1:30	8
7	G	1:34	8
8	H	1:30	7
9	I	1:15	4
10	J	1:22	6



## Rhyming Words With images

**Table 1.1** Observations of test conducted for dataset comprising of 36 rhyming words with 3 individuals

<b>S No.</b>	<b>Name</b>	<b>Time Taken</b>	<b>No. of words retained</b>
1	A	5:18	34
2	B	6:35	36
3	C	5:29	33

## Familiar words without images

- In this experiment we used the names of the interns for demonstration and did repeated the words twice.
- We did not get good result in this experiment.

**Table 1.1** Observations of test conducted for dataset comprising of 20 names with 10 individuals

<b>S No.</b>	<b>Name</b>	<b>Time (min)</b>	<b>No. of words retained</b>
1	A	3:50	3
2	B	10:00	15
3	C	11:00	19
4	D	16:00	19
5	E	4:40	20
6	F	4:32	20
7	G	4:27	17
8	H	7:30	10

We made nearly 215 slides for 20 words and this experiment showed good result.

S. no.	Participant's Name	Time taken (minutes)
1	Jatin	9
2	Shakti	11
3	Sarthak	15
4	Rohit	8
5	Abdullah	12

## Last Experiment

- In this experiment we tried to develop a pattern for the repetition of words.
- We got good results.

1	2	3	4	5	
1	2	3	4	5	6
2	3	4	5	6	
3	4	5	6	7	
4	5	6	7	8	
5	6	7	8	9	
6	7	8	9	10	
7	8	9	10	11	
8	9	10	11	12	
9	10	11	12	13	
10	11	12	13	14	
11	12	13	14	15	
12	13	14	15	1	
13	14	15	1	2	
14	15	1	2	3	
15	1	2	3	4	

S. No.	Participants	Time taken	Word retained
1	A	4:45	12
2	B	3:55	12
3	C	4:40	14
4	D	5:08	15
5	E	5:05	15
6	F	4:40	12
7	G	4:45	12
8	H	3:50	15