Minimal Pair Discrimination Requiring Picture Selection: Instructions for Use

This task requires the patient to match a single heard word with a corresponding picture. All the words are monosyllabic with a CVC structure. There is a choice of three pictures and distractor pictures have phonologically related names. The task is designed for use in conjunction with other Minimal Pair tasks (eg. **[1]**, **[2]**). The performance of subjects with impairment at the level of auditory analysis may be improved by the additional phonological information specified by the semantic context in this task, unless the impairment is so severe that context cannot be used (eg. Franklin, S. (1989), **Aphasiology**, **3**, 189-207). With impairment at the level of the Phonological Input Lexicon, however, picture distractors can increase the likelihood of phoneme errors.

Target and distractors are either minimally different (according to voice, manner or place of articulation), or two or more distinctive features different. Minimal contrast differences occur either in initial or final positions of pairs or in pairs that are metathetically related. Minimal pair distractors are either higher in frequency than the target, equal in frequency to it, or lower in frequency. This allows the presenter to check whether incorrect choices are influenced by word frequency. All the words are monomorphemic.

Special Points:

For any test using picture materials, check beforehand that picture processing abilities are not impaired.

Use the practice items provided to make sure that the patient understands the task and is aware of the fineness of the discrimination needed, both word initially and finally.

Descriptive Statistics (for 25 control subjects):

Mean = 39.00
Std. Dev. = 1.70

Suggestions for Where to go next: With a choice of 3 alternatives, one would expect the patient to score 33% correct by chance alone. If the patient performs outside the normal range, check on hearing and try other auditory processing tasks (eg. Same - Different Discrimination using both Word and Nonword Minimal Pairs (**[1]**, **[2]**)). Test Auditory Lexical Decision **[5]**. Check semantic processing abilities (eg. Spoken Word-Picture Matching **[47]**, Written Word-Picture Matching **[48]**).

Minimal Pair Discrimination Requiring Picture Selection: Presenter's & Marking Form

Name: Date:

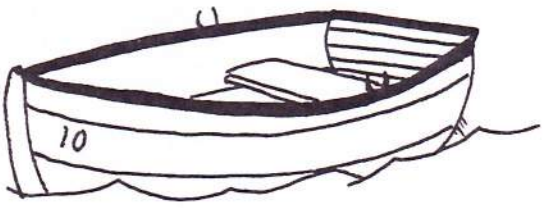
Instructions to Subject: I'm going to say a word. Look at these three pictures. Point to the picture that matches it. Use the words "goat" and "hen" as practice (P) items. [Prevent subject from lipreading.]

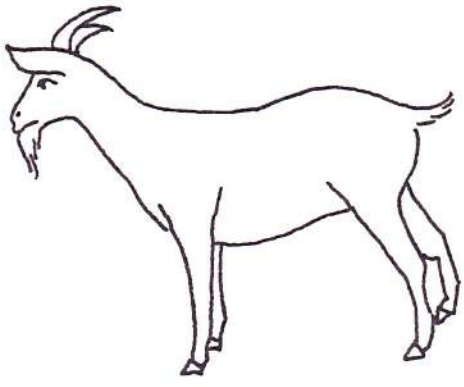
Marking Instructions: Tick correct answer in Target column. Errors are either minimally different or two or more distinctive features different. 'Type' column indicates differences between target and minimal pair response: where the difference occurs (initial (I), final (F) or metathetic (M)), what the difference is (voice (v), manner (m) or place (p)) and whether the error is higher (H), lower (L) or equal in frequency (=) to the target).

No.	Target		MPair		Type	2+Dist	
P	goat		coat			boat	
P	hen		hem			head	
1	fan		van		I v H	man	
2	cap		tap		I p H	map	
3	fawn		fall		F m L	fort	
4	lane		nail		M m H	lake	
5	fang		fan		F p L	fat	
6	bag		back		F v L	bat	
7	gown		down		I p H	town	
8	pill		bill		I v L	mill	
9	bud		bug		F p =	bus	
10	pit		kit		I p H	sit	
11	pack		cap		M p L	pan	
12	tongue		tug		F m H	tub	
13	come		cub		F m H	cut	
14	bead		deed		I p L	seed	
15	pig		pick		F v H	pit	
16	rope		robe		F v H	road	
17	tack		sack		I m L	back	
18	cub		cup		F v L	cut	
19	pole		bowl		I v L	goal	
20	deck		neck		I m L	peck	
21	cut		gut		I v H	hut	
22	back		bat		F p H	ban	
23	coat		code		F v L	comb	
24	sail		tail		I m L	pail	
25	robe		road		F p L	roll	
26	bat		mat		I m H	cat	
27	tick		kit		M p =	tin	
28	leaf		leave		F v H	lead	
29	rice		write		F m L	ride	
30	goal		coal		I v H	pole	
31	bean		beam		F p L	beak	
32	lip		nip		I m H	hip	
33	nail		lane		M m L	name	
34	line		nine		I m H	pine	
35	run		rung		F p H	rug	
36	dip		tip		I v L	lip	
37	head		hen		F m H	hem	
38	pail		tail		I p L	nail	
39	feed		seed		I p L	bead	
40	hiss		hit		F m L	hip	

CORRECT /40	ERRORS:					
	INITIAL	/18	voice	/12	Lo Freq	/20
	FINAL	/18	manner	/14	Hi / = Freq	/20
	METATHETIC	/4	place	/14		

P





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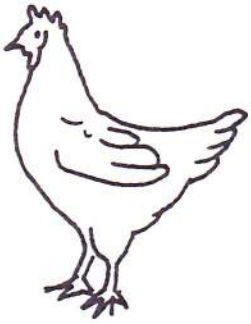

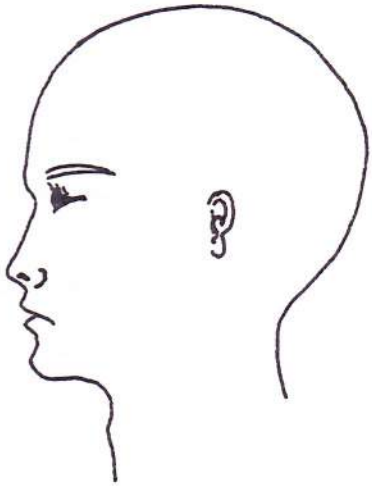

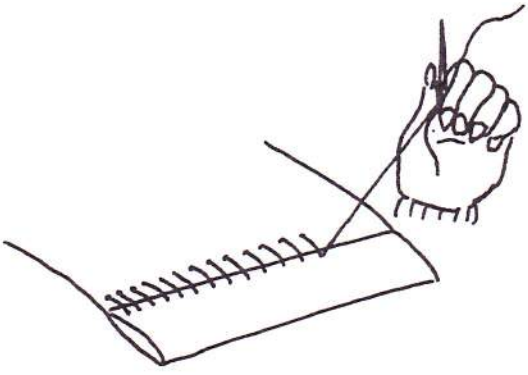

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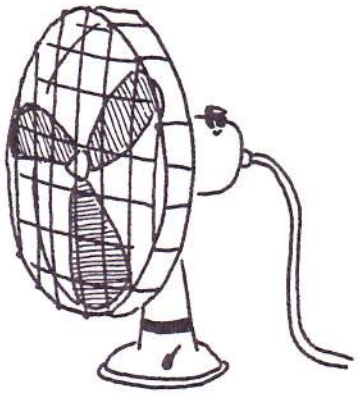

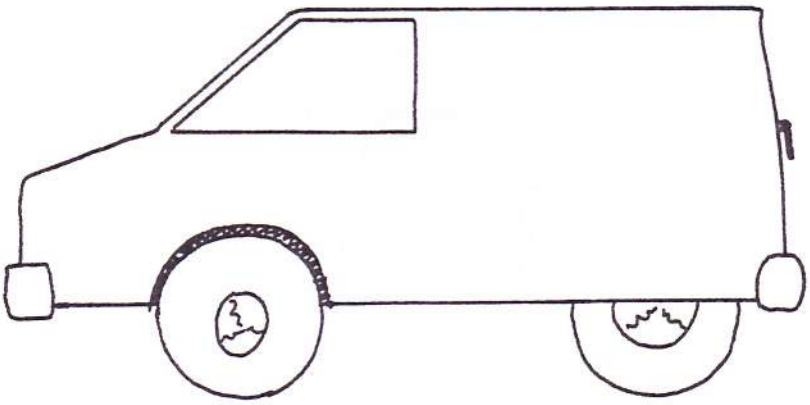

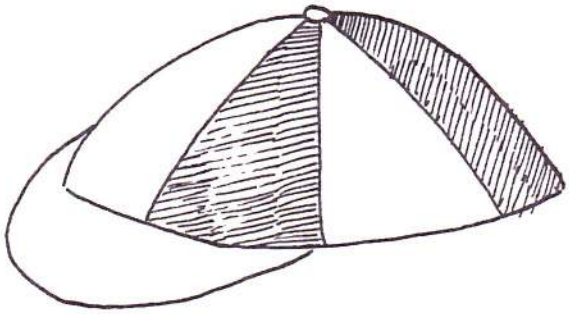

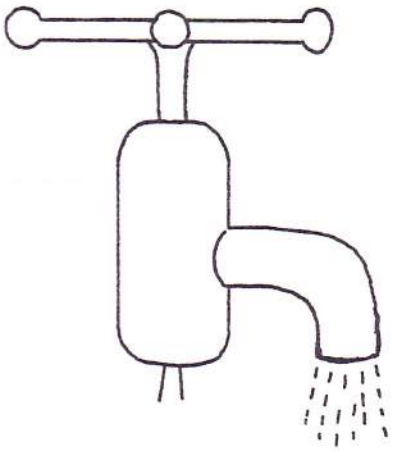

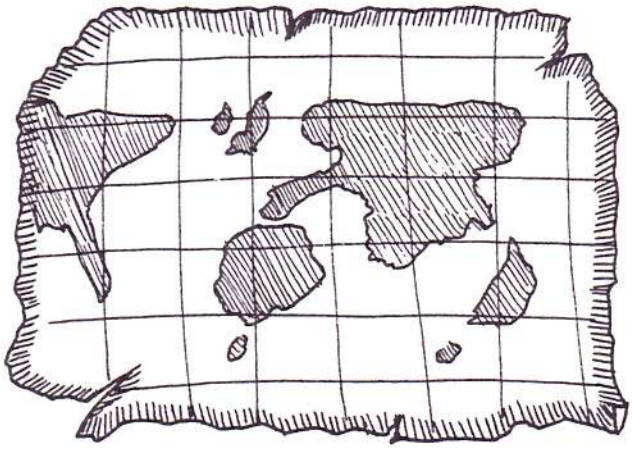

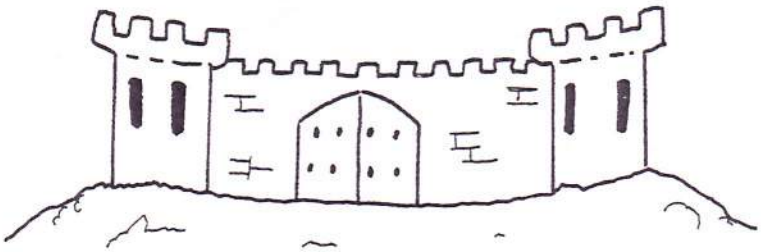

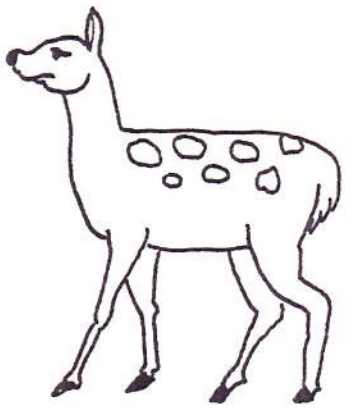

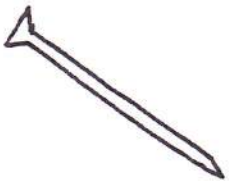

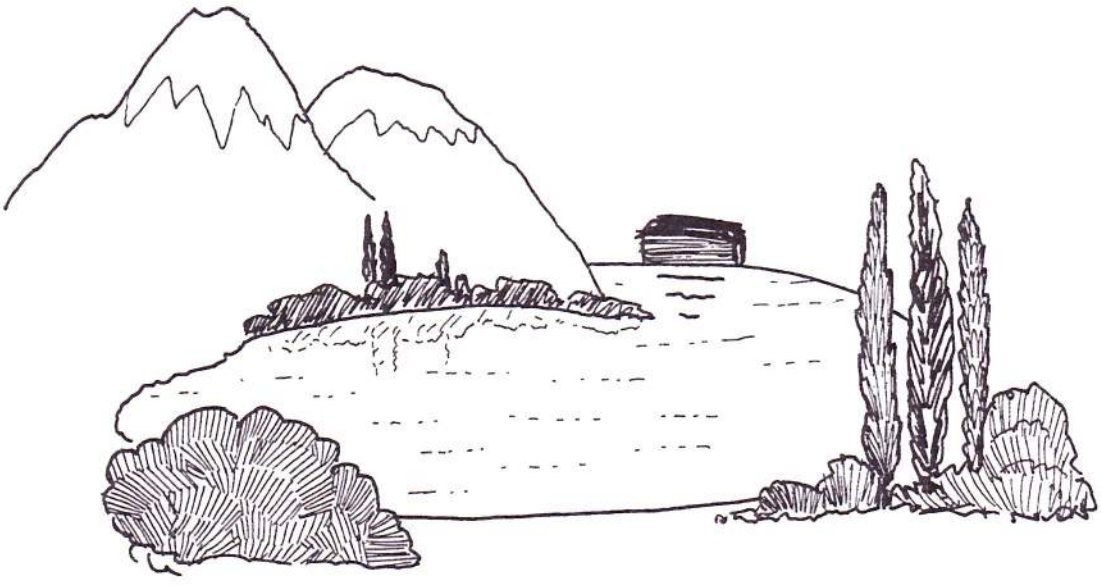

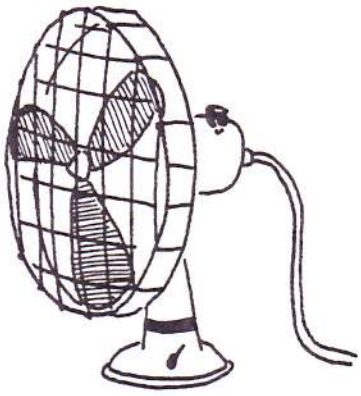

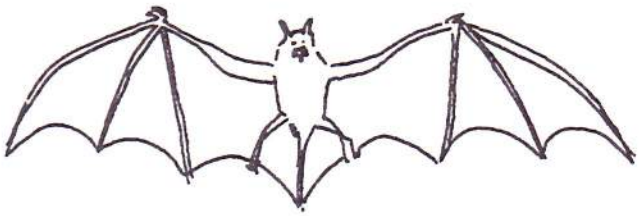

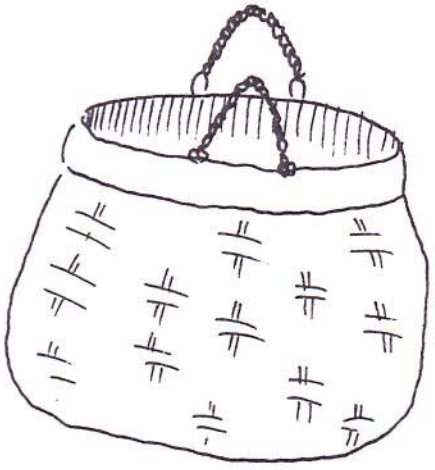

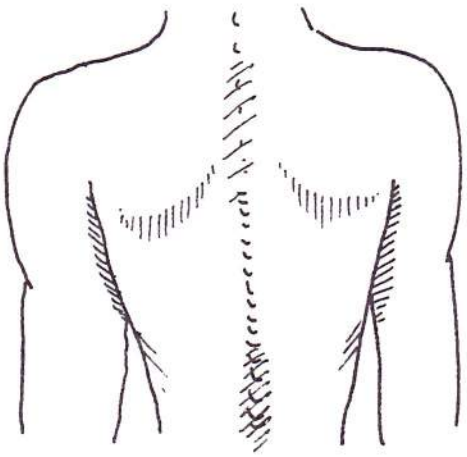

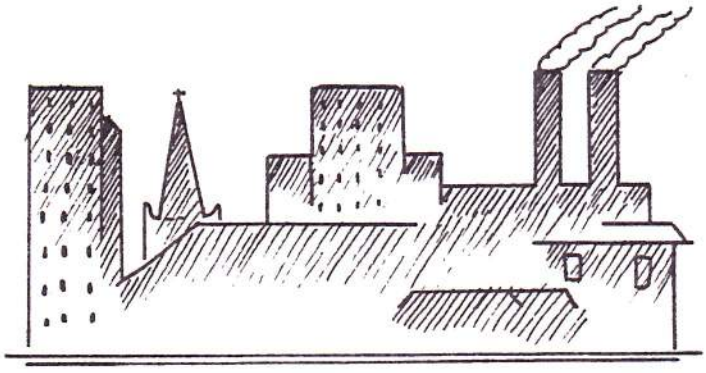

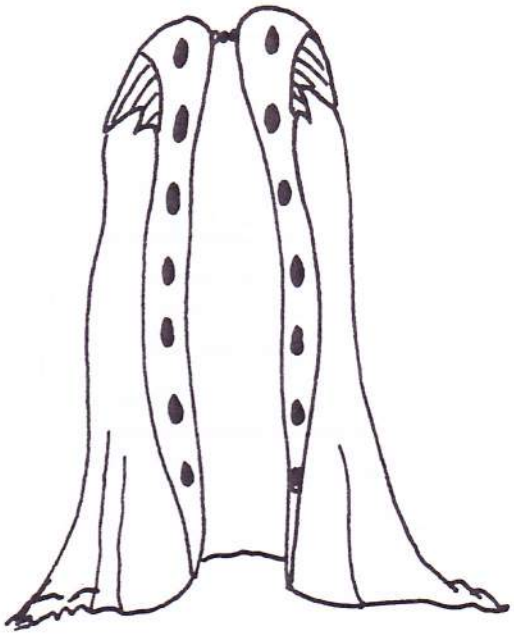

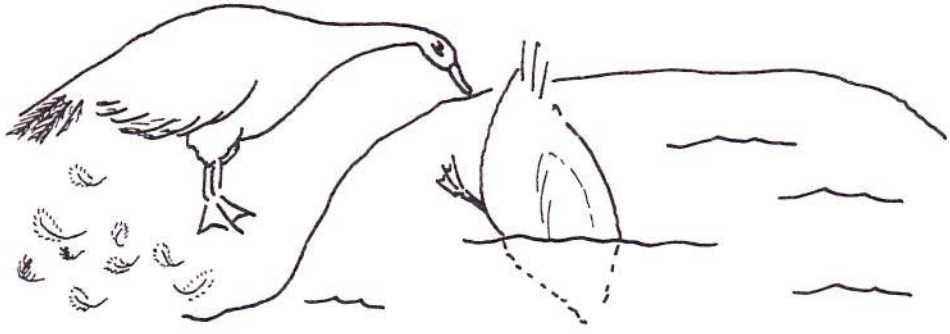

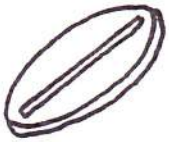

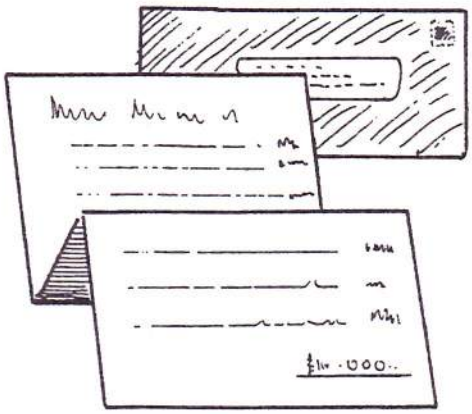

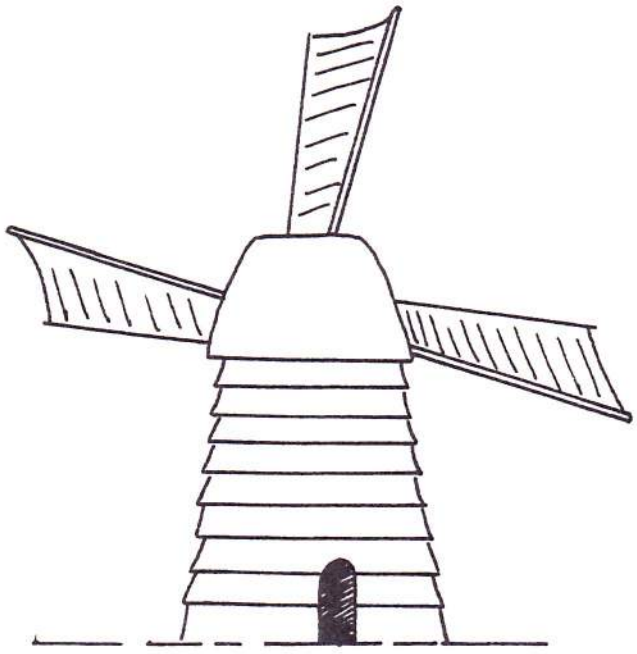

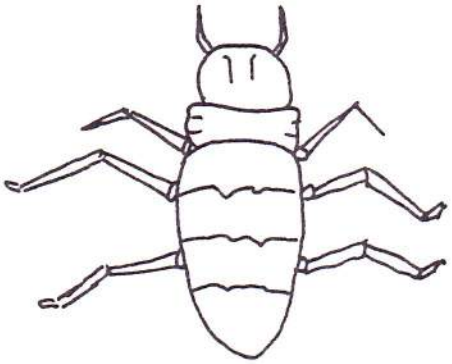

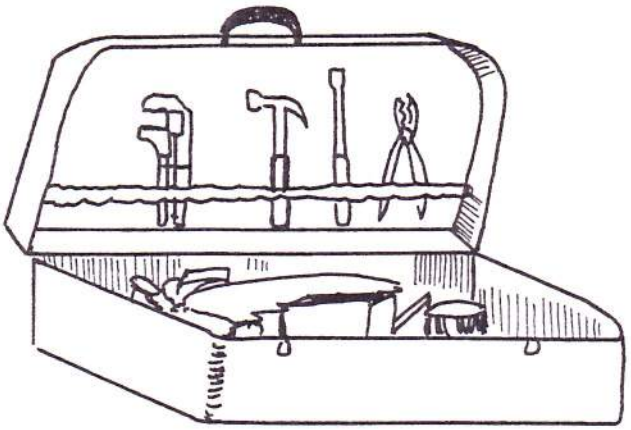

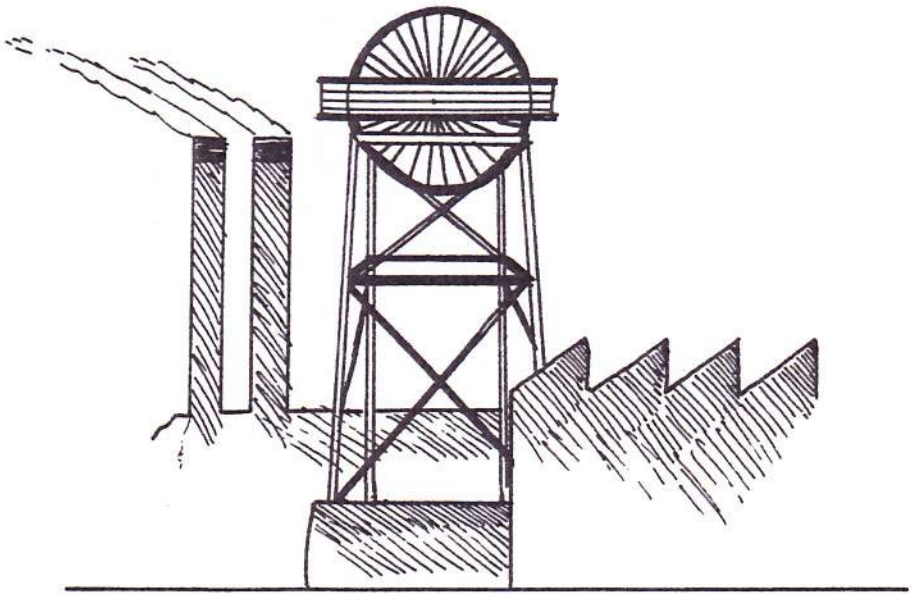

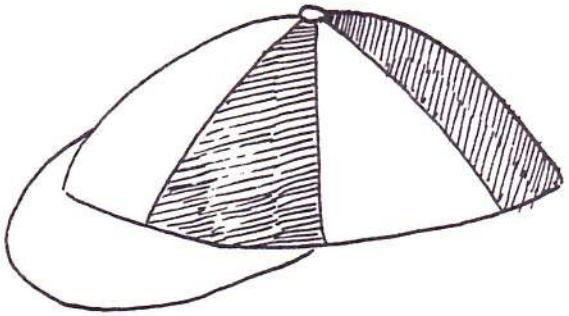

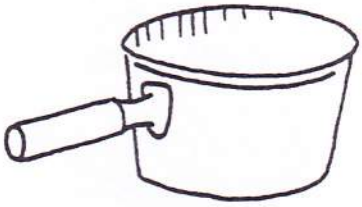

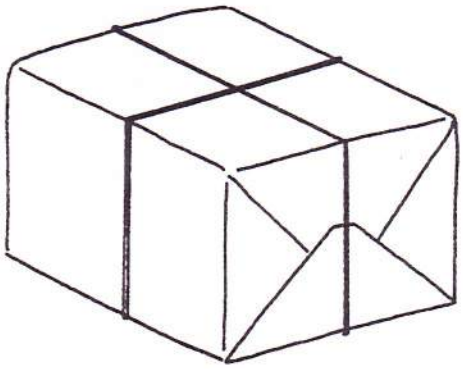

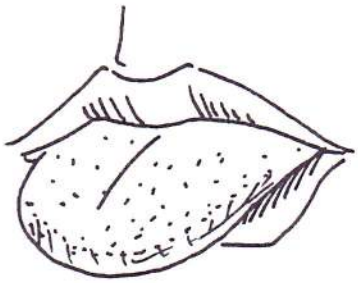

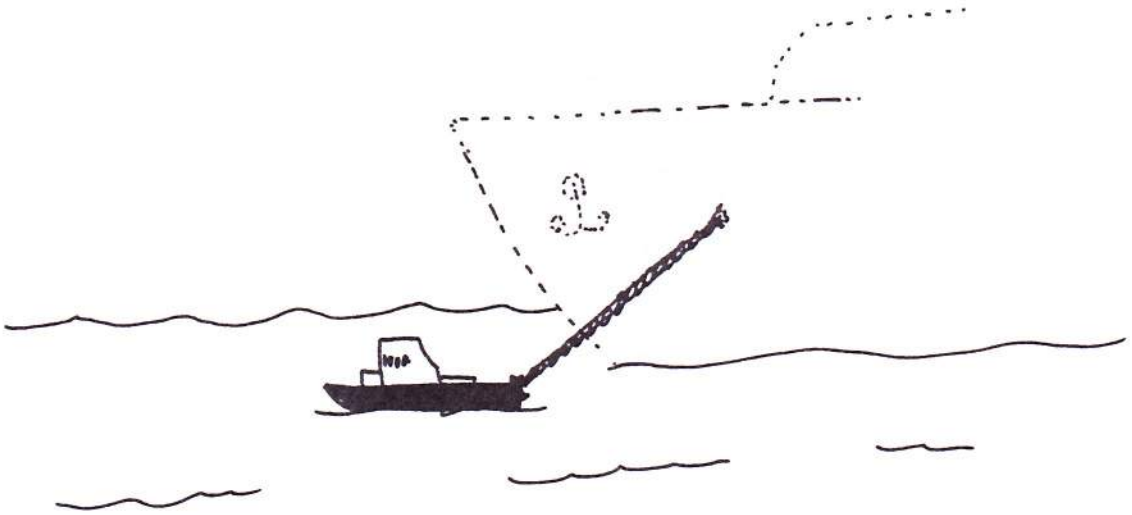

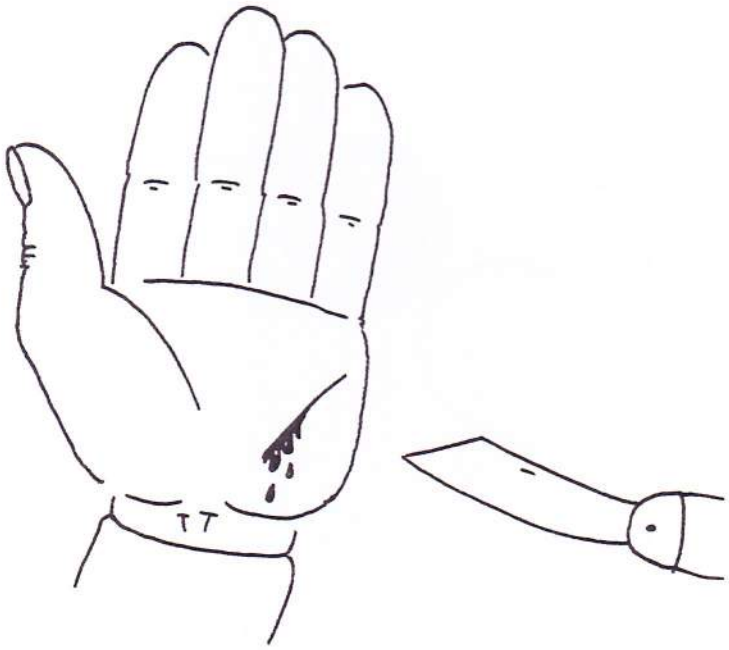

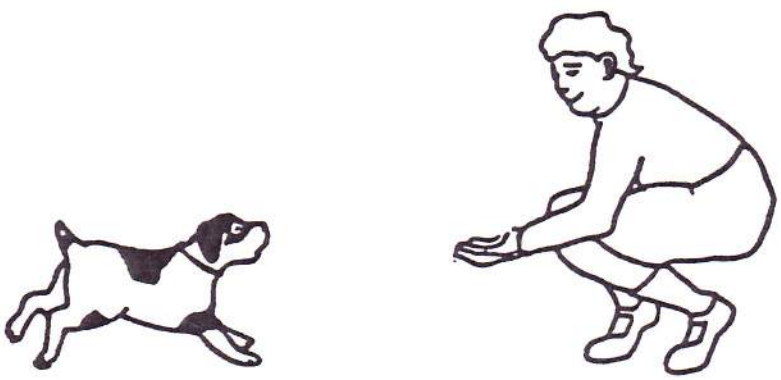

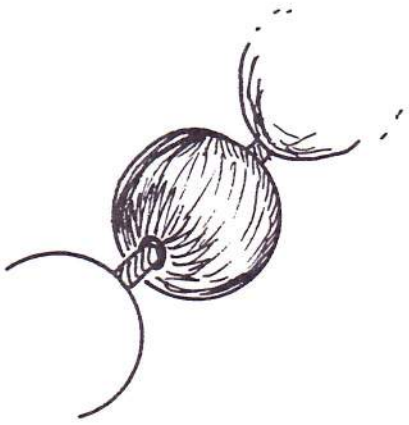

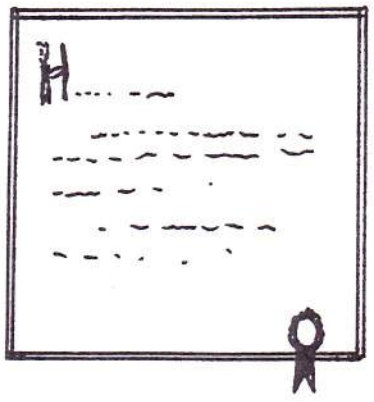

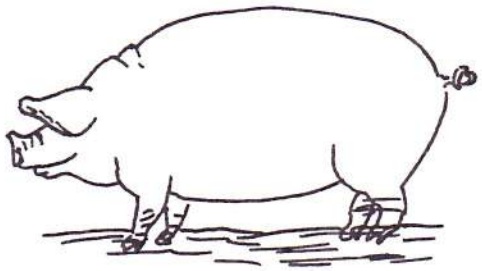

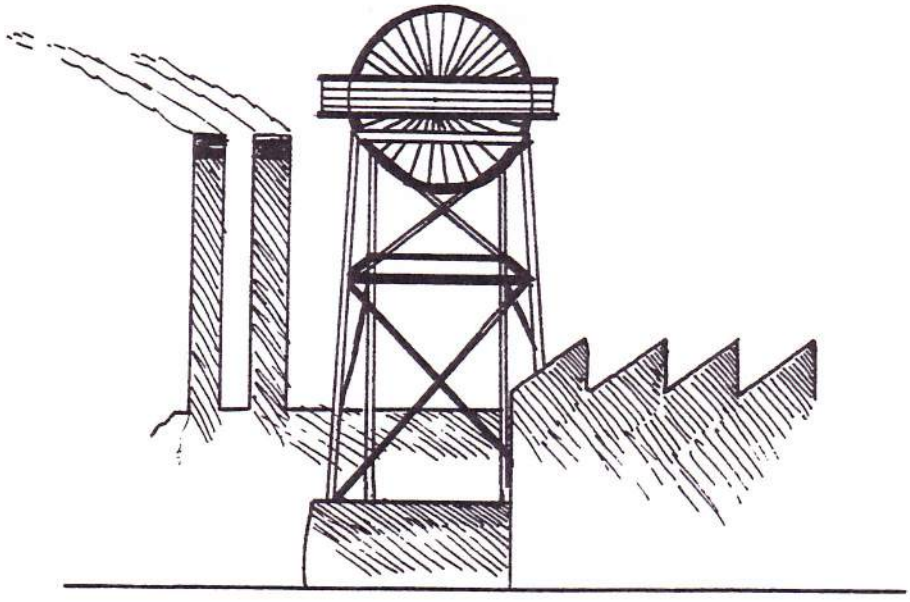

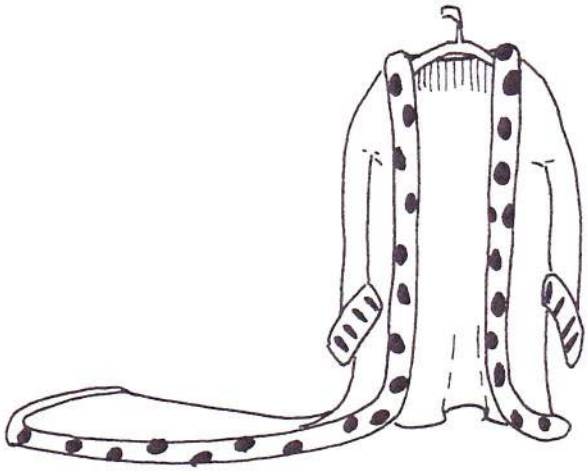

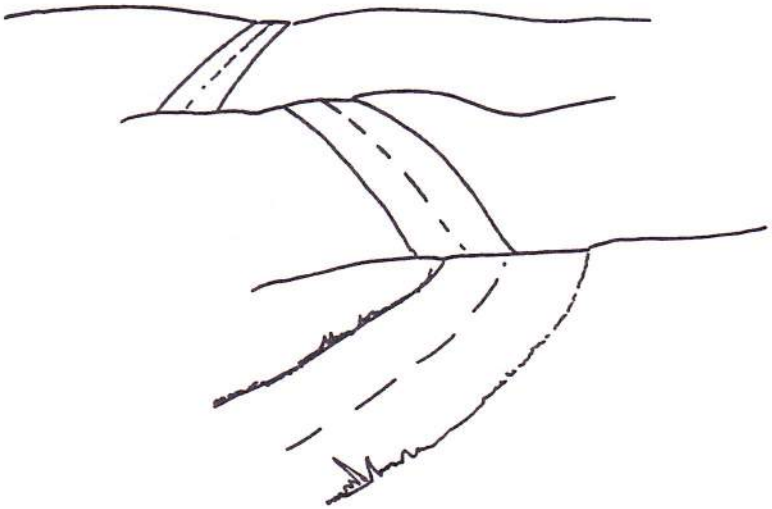

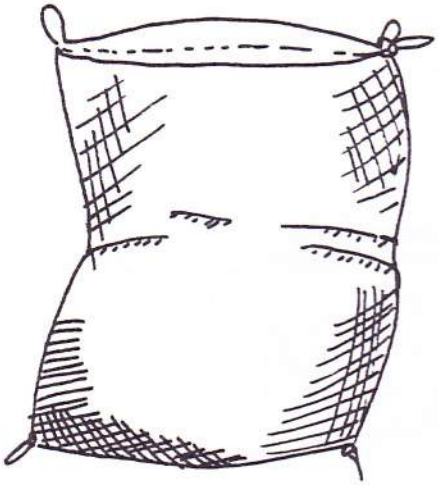

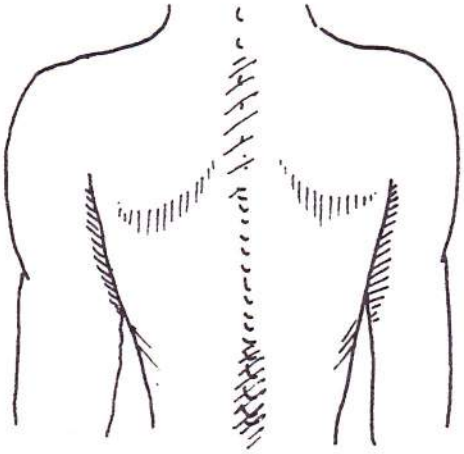

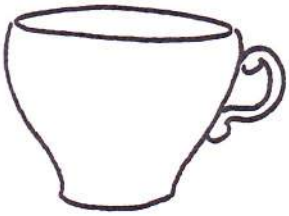

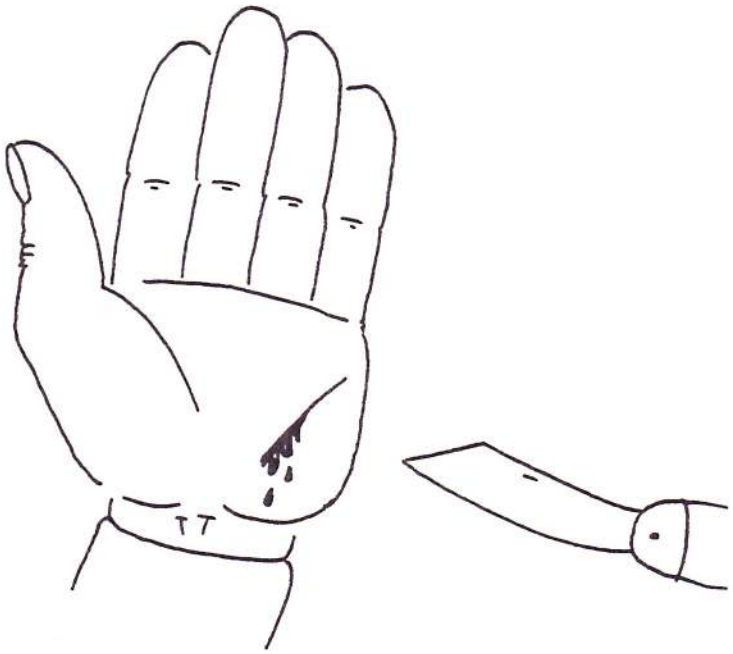

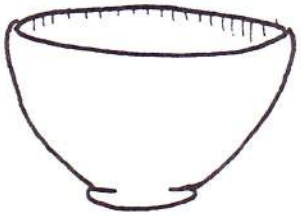

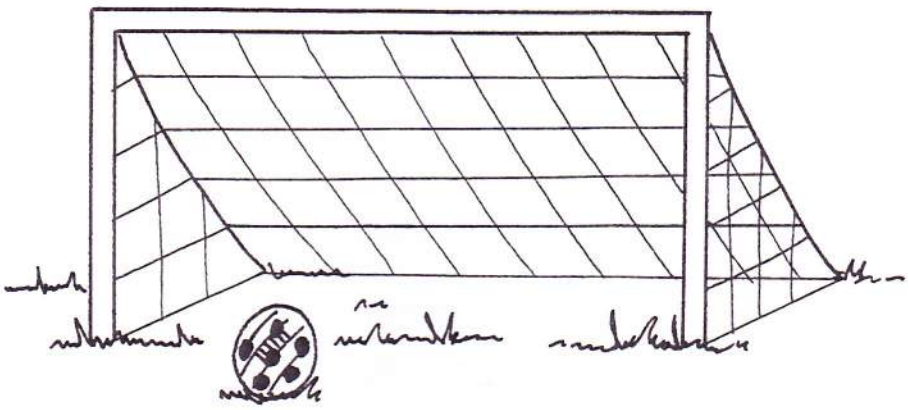

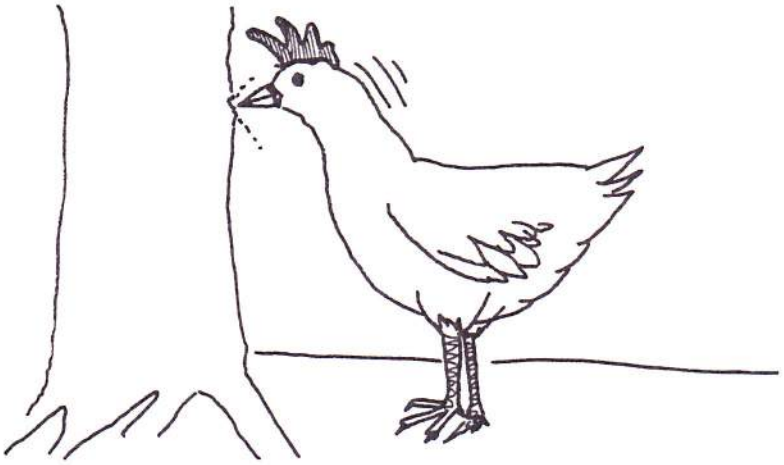

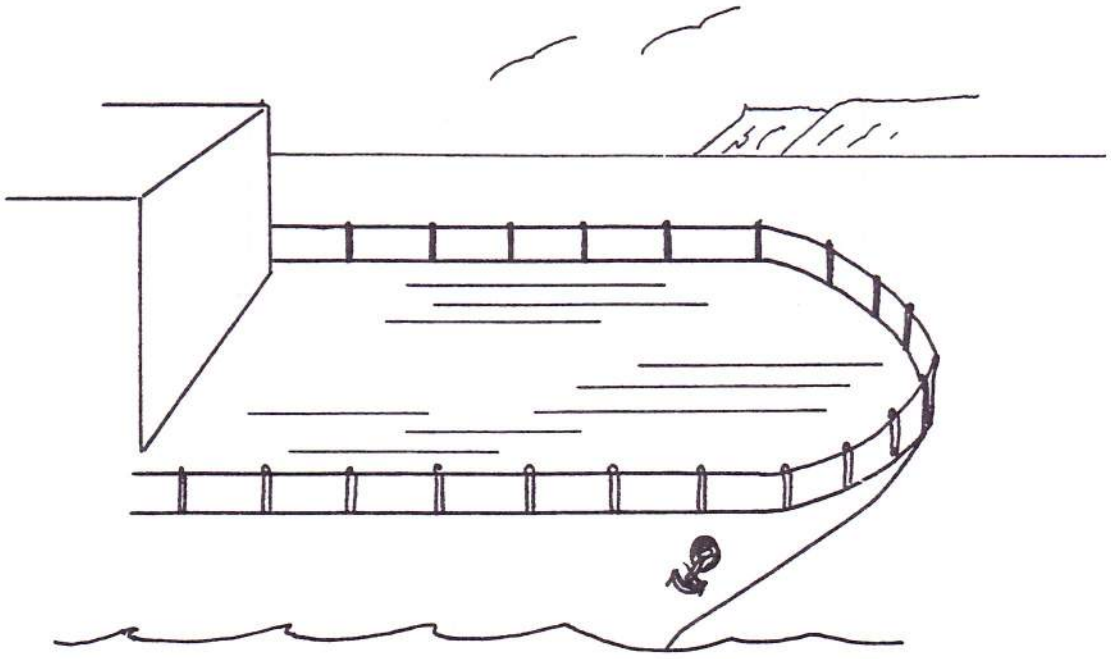

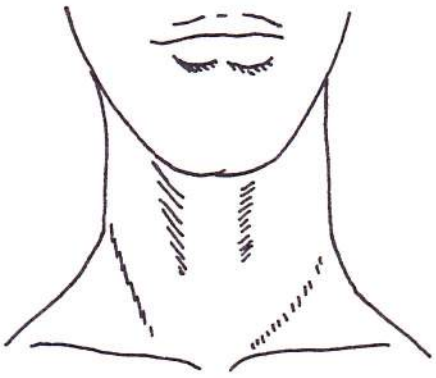

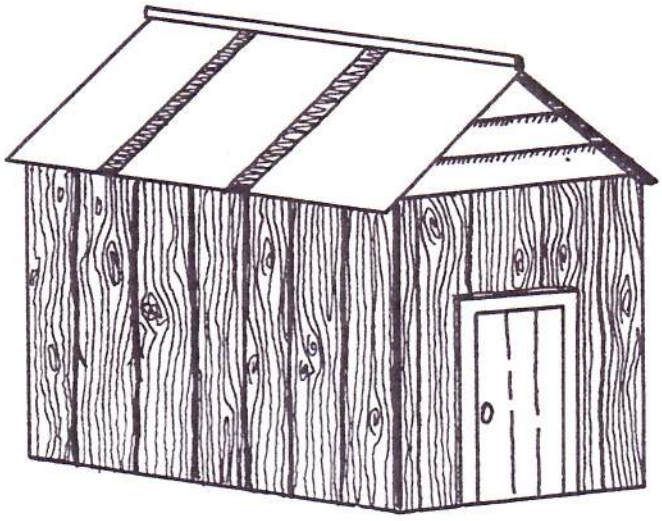

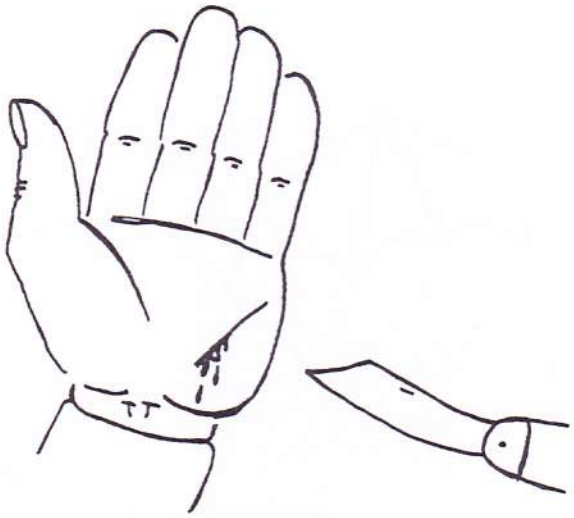

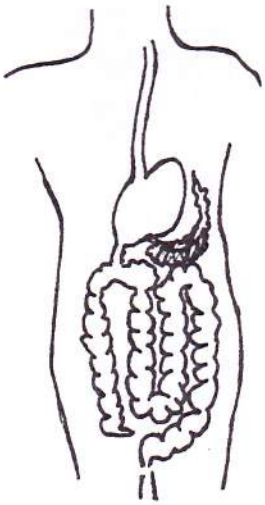

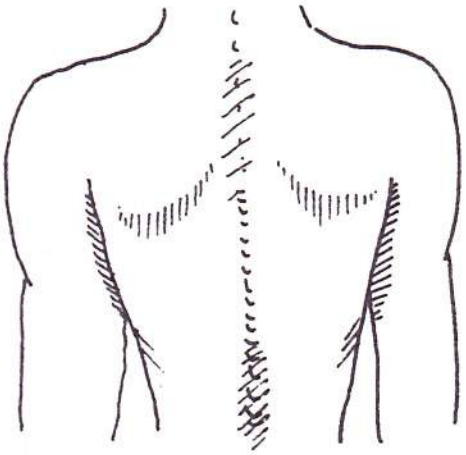

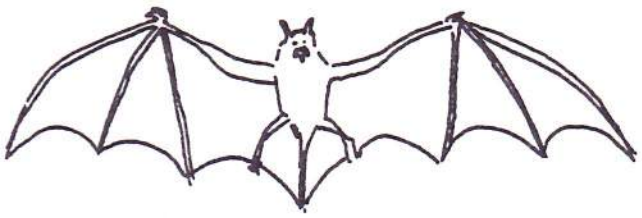

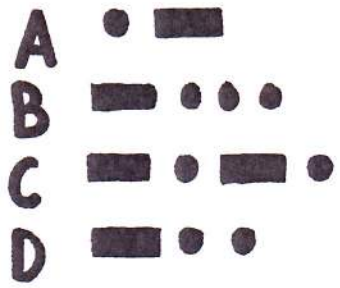
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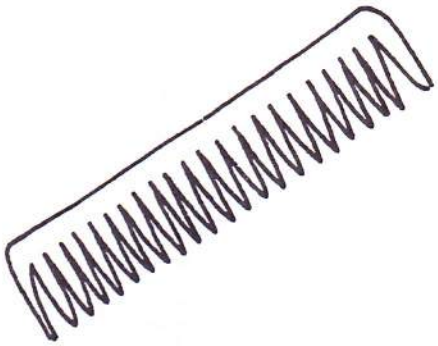

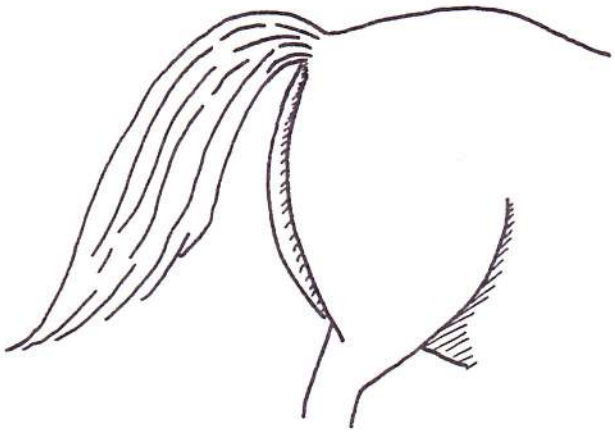

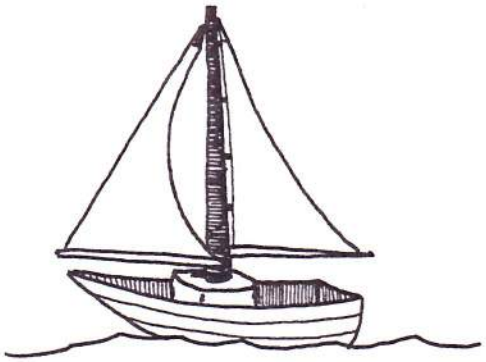

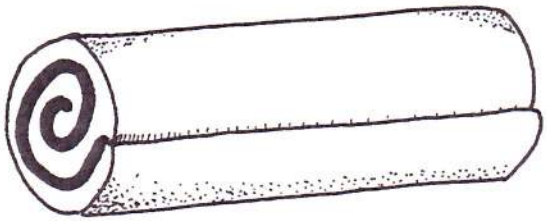

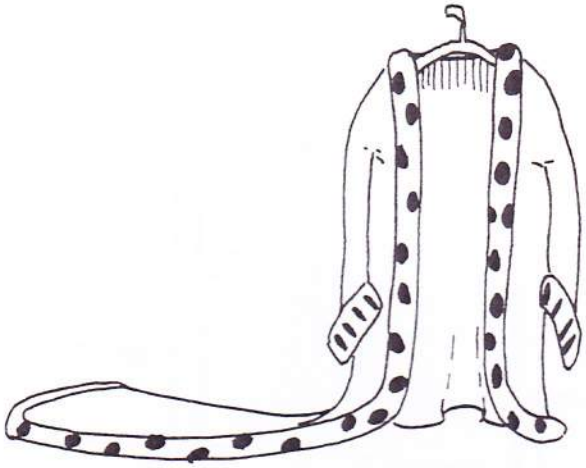

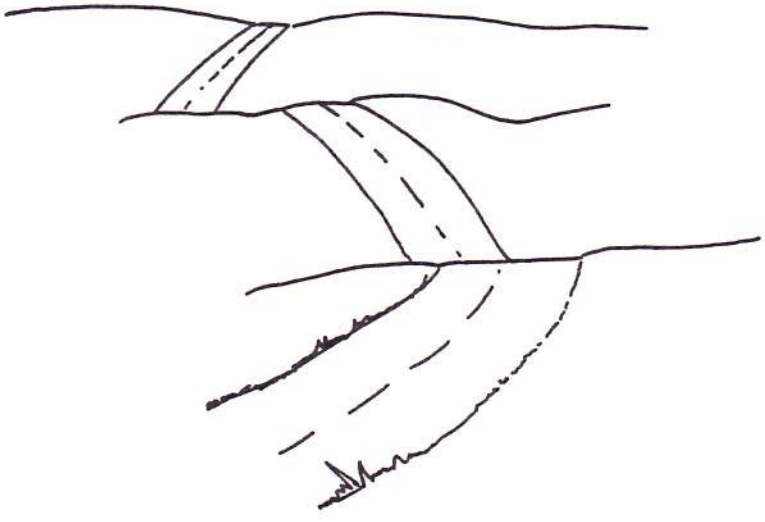

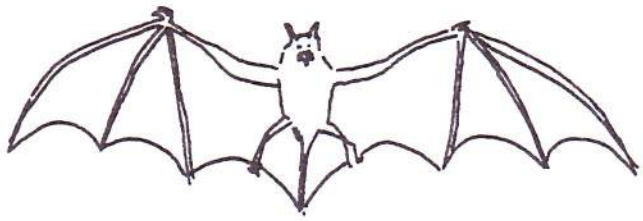

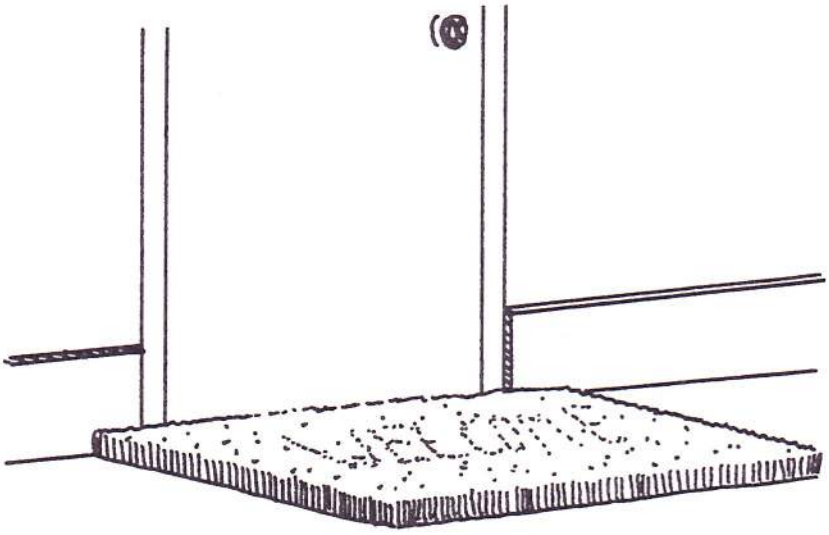

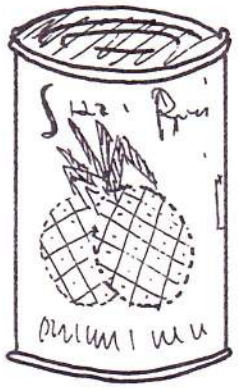

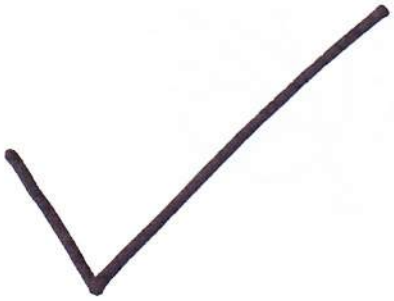

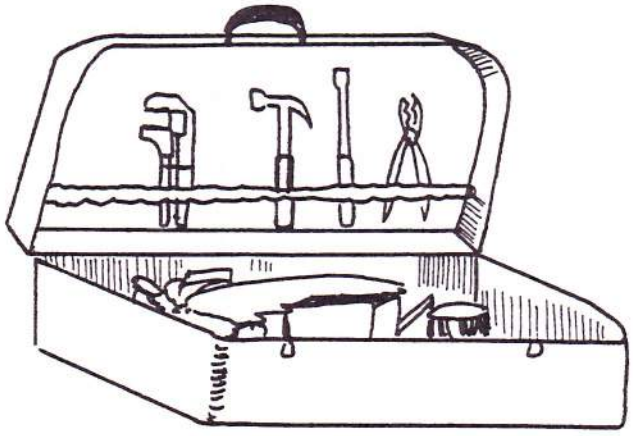

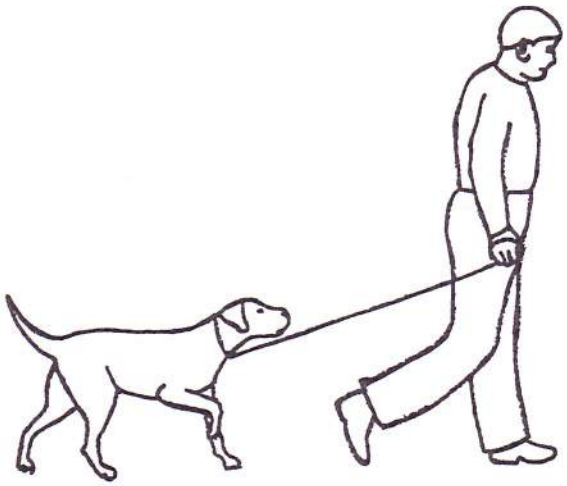

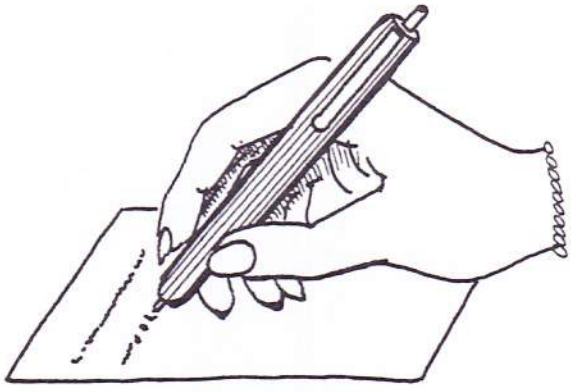

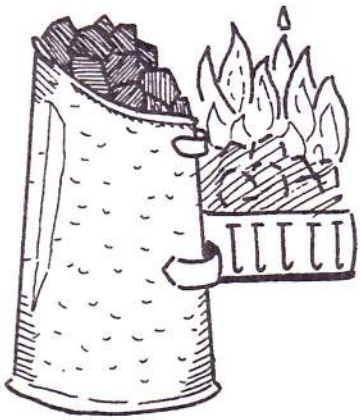

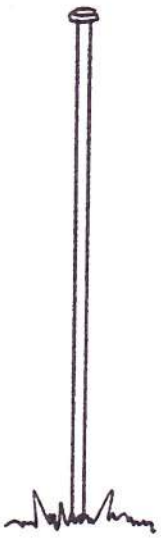

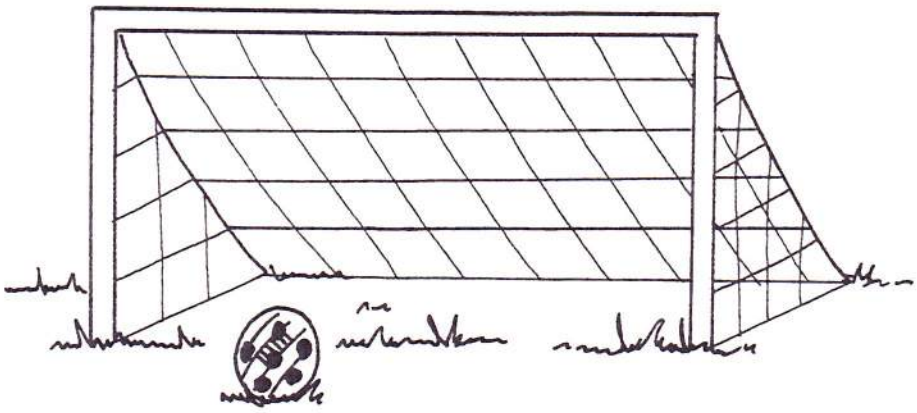

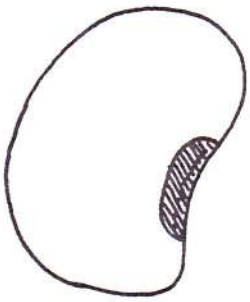

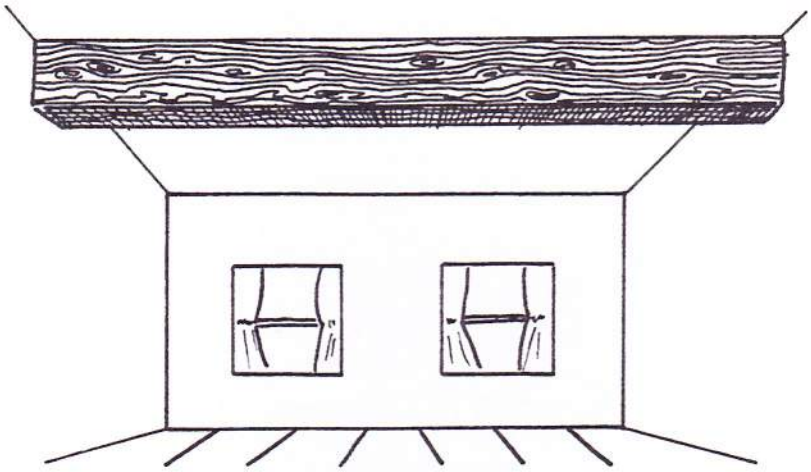

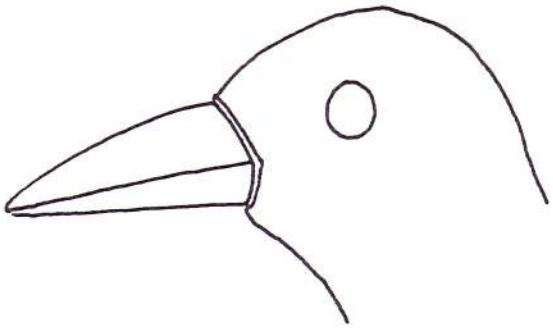

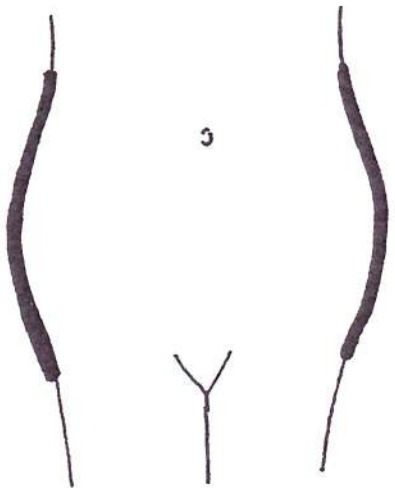

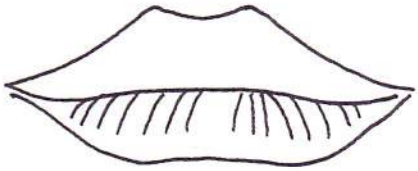

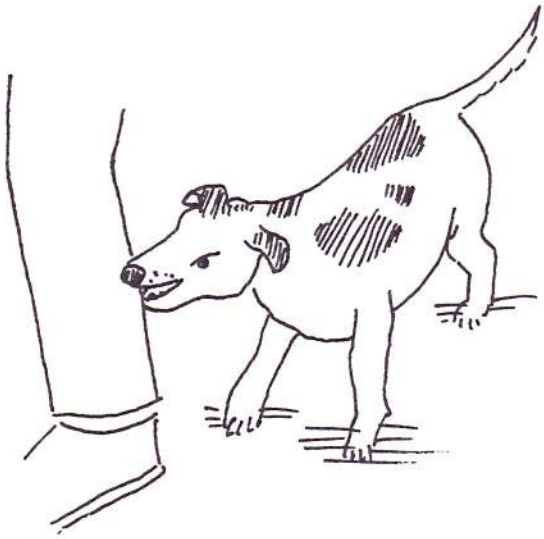

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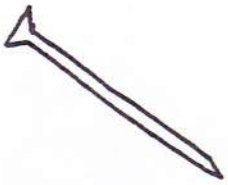
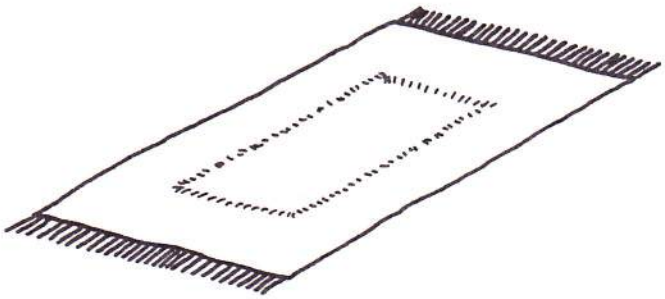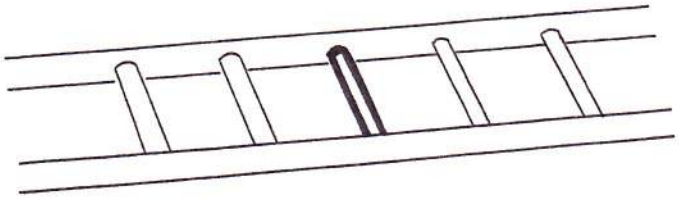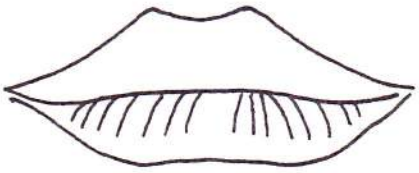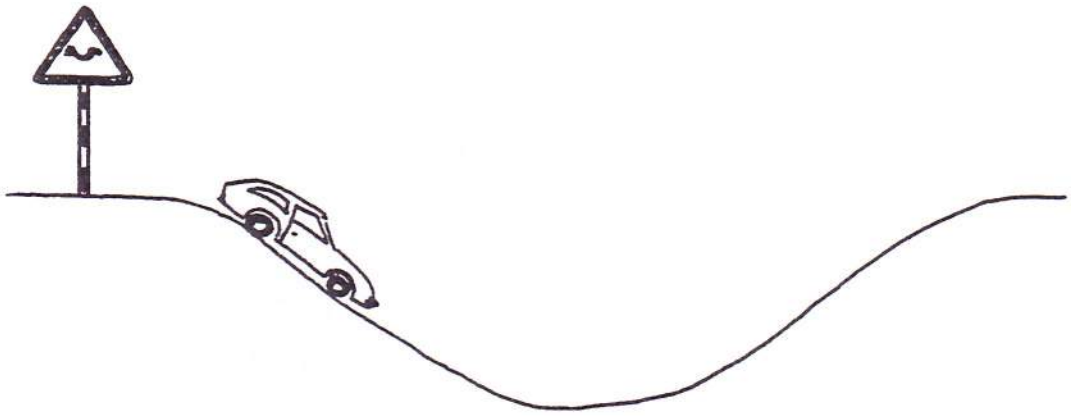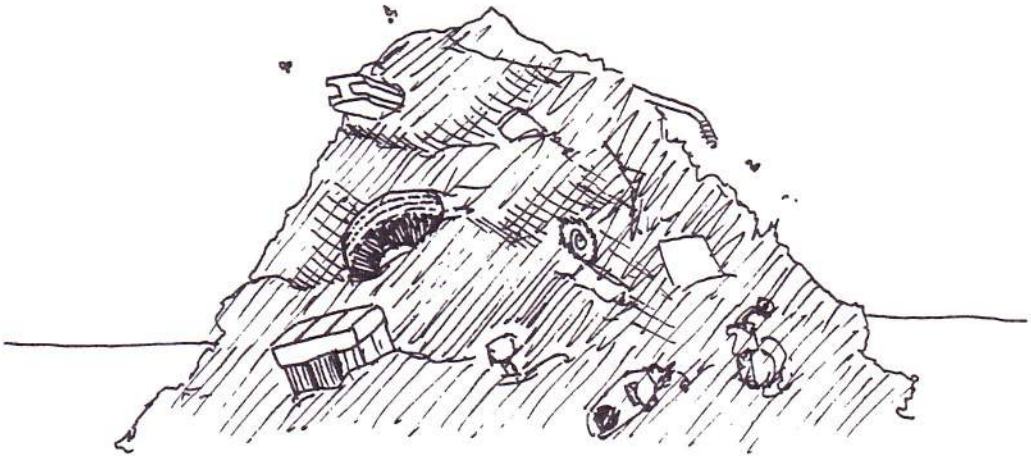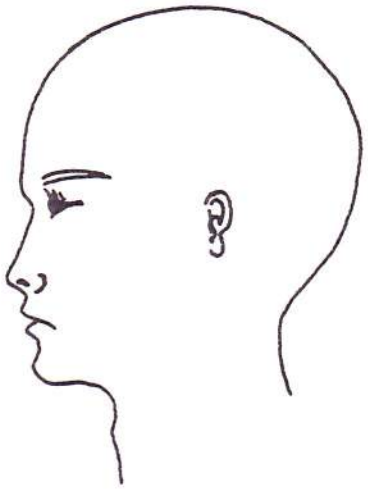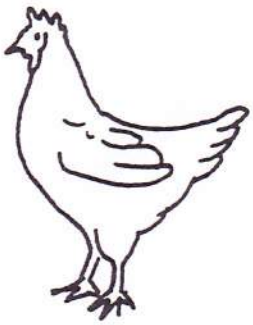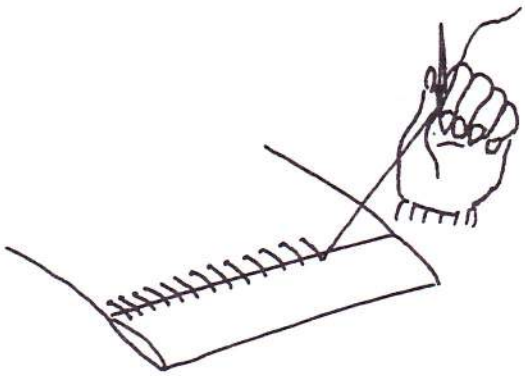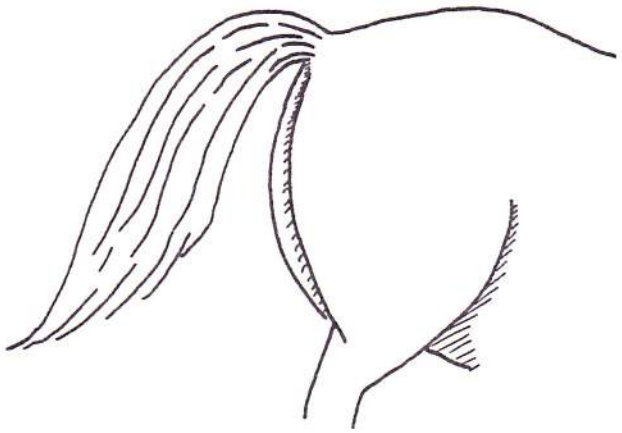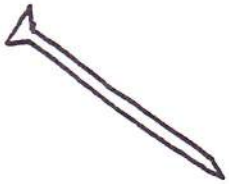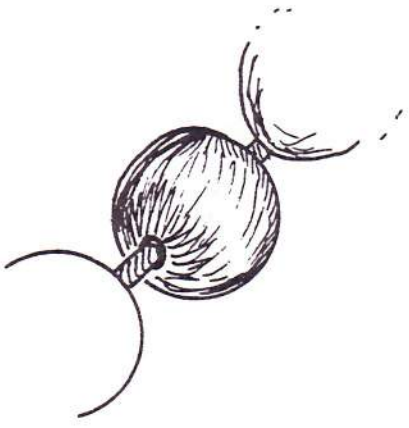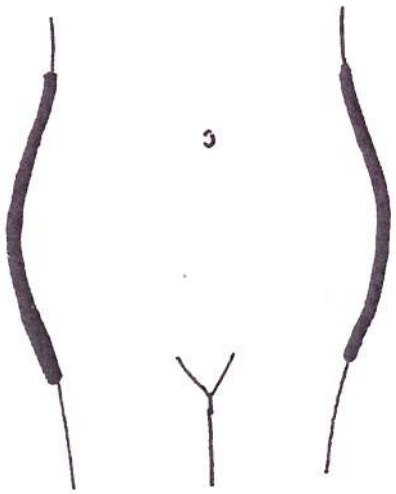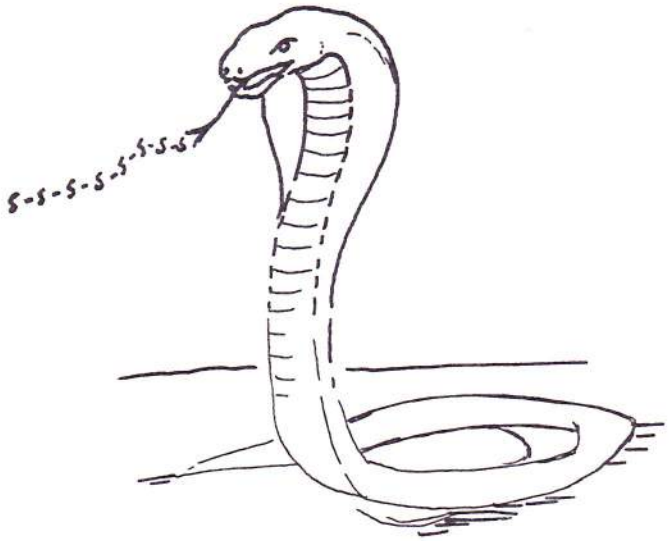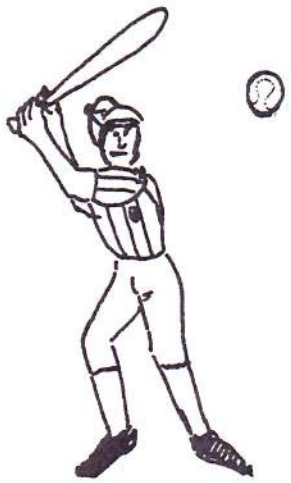
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