**Appendix A** Thirty-six pairs of Mandarin words and their corresponding pictures.

Eighteen pairs marked in red were the pairs used in the training sessions.

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| **List** | **Tone Contrast** | **Item 1** | **Item 2** |
| Trained | 1-2 | Chuāng (window, Tone 1)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\chuang_t1_window.jpg | Chuáng (bed, Tone 2)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\chuang_t2_bed.jpg |
|  |  | Add the rest of the trained 1-2 |  |
|  | 1-3 | Etc until you have included all trained items |  |
| Novel | 1-2 | Then add the novel items |  |
|  | 1-3 |  |  |
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| **TONE 1** | **TONE 2** |
| Chuāng (window)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\chuang_t1_window.jpg | Chuáng (bed)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\chuang_t2_bed.jpg |
| Māo (cat)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\mao_t1_cat.jpg | Máo (anchor)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\mao_t2_anchor.jpg |
| Qiān (swing)  C:\Users\psslae\Dropbox\BA_Mandarin\mandarinEXP\picturefiles\qian_t1_swing.jpg | Qián (money)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\qian_t2_money.jpg |
| Shī (teacher)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\shi_t1_teacher.jpg | Shí (ten)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\shi_t2_ten.jpg |
| Tuō (mop)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\tuo_t1_mop.jpg | Tuó (to carry)  C:\Users\psslae\Dropbox\BA_Mandarin\carry.jpg |
| Tī (ladder)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\ti_t1_ladder.jpg | Tí (hoof)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\ti_t2_hoof.jpg |

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| **TONE 1** | **TONE 3 (ˇ)** |
| Jiāo (glue)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\jiao_t1_glue.jpg | Jiǎo (foot)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\jiao_t3_foot.jpg |
| Shū (comb)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\shu_t1_comb.jpg | Shǔ (mouse)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\shu_t3_mouse.jpg |
| Xuē (boot)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\xue_t1_boot.jpg | Xuě (snow)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\xue_t3_snow.jpg |
| Mā (mother)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\ma_t1_mother.jpg | Mǎ (horse)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\ma_t3_horse.jpg |
| Guī (tortoǐse)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\gui_t1_tortoise.jpg | Guǐ (ghost)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\gui_t3_ghost.jpg |
| Zhēn (needle)  C:\Users\psslae\Dropbox\BA_Mandarin\needle.jpg | Zhěn (pǐllow)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\zhen_t3_pillow.jpg |

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| **TONE 1** | **TONE 4** |
| Bā (eight)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\ba_t1_eight.jpg | Bà (father)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\ba_t4_father.jpg |
| Huā (flower)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\hua_t1_flower.jpg | Huà (paint)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\hua_t4_topaint.jpg |
| Zhū (pig)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\zhu_t1_pig.jpg | Zhù (pour)  C:\Users\psslae\Dropbox\BA_Mandarin\pour.jpg |
| Dēng (lamp)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\deng_t1_lamp.jpg | Dèng (bench)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\deng_t4_bench.jpg |
| Kū (cry)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\ku_t1_cry.jpg | Kù (trousers)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\ku_t4_trousers.jpg |
| Xǐāng (box)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\xiang_t1_box.jpg | Xiàng (elephant)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\xiang_t4_elephant.jpg |

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| **TONE 2** | **TONE 3 (ˇ)** |
| Bí (nose)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\bi_t2_nose.jpg | Bǐ (pen)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\bi_t3_pen.jpg |
| Wán (to play)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\wan_t2_play.jpg | Wǎn (bowl)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\wan_t3_bowl.jpg |
| Niú (cow)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\niu_t2_cow.jpg | Niǔ (button)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\niu_t3_button.jpg |
| Chí (spoon)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\chi_t2_spoon.jpg | Chǐ (ruler)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\chi_t3_ruler.jpg |
| Hú (moustache)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\hu_t2_moustache.jpg | Hǔ (tǐger)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\hu_t3_tiger.jpg |
| Yú (fǐsh)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\yu_t2_fish.jpg | Yǔ (feather)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\yu_t3_feather.jpg |

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| **TONE 2** | **TONE 4** |
| Dí (siren)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\di_t2_siren.jpg | Dì (earth)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\di_t4_earth.jpg |
| Xié (shoe)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\xie_t2_shoe.jpg | Xiè (crab)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\xie_t4_crab.jpg |
| Yún (cloud)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\yun_t2_cloud.jpg | Yùn (iron)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\yun_t4_iron.jpg |
| Mó (mushroom)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\mo_t2_mushroom.jpg | Mò (mill)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\mo_t4_mill.jpg |
| Shé (snake)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\she_t2_snake.jpg | Shè (house)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\she_t4_house.jpg |
| Wá (baby)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\wa_t2_baby.jpg | Wà (sock)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\wa_t4_sock.jpg |

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| **TONE 3 (ˇ)** | **TONE 4** |
| Dǎn (brush, verb)  C:\Users\psslae\Dropbox\BA_Mandarin\brush.jpg | Dàn (egg)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\dan_t4_egg.jpg |
| Mǐ (rǐce)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\mi_t3_rice.jpg | Mì (honey)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\mi_t4_honey.jpg |
| Yǎn (eye)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\yan_t3_eye.jpg | Yàn (flame)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\yan_t4_flame.jpg |
| Bǎo (treasure)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\bao_t3_treasure.jpg | Bào (newspaper)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\bao_t4_newspaper.jpg |
| Dǎo (island)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\dao_t3_island.jpg | Dào (road)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\dao_t4_road.jpg |
| Jǐǎn (scissors)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\jian_t3_scissors.jpg | Jiàn (arrow)  C:\Users\EPSY\Dropbox\BA_Mandarin\MandarinEXP\picturefiles\jian_t4_arrow.jpg |