**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 |