



Gallery: Fossil Gallery

Course Name: Key to Fossils

Grade Level: 5, 6, 7, 9 - 12

Activity: (Post-activity) Animal Dichotomous Key

Approximate Time required: 20 minutes

Vocabulary: organism, species, exoskeleton, endoskeleton, tentacles, dichotomous key

Objective:

Students will identify the scientific names of given pictures of animals using a dichotomous key.

Materials Needed:

2 pages of animal pictures (attached)- Display them on smart board or copy and hang on board.
Copies of animal dichotomous key (attached)

Procedure:

After visiting the museum, review with the students how to use a dichotomous key. Remind them that they worked as a group in the museum to determine the names of the fossils. Today they will work separately and complete the key writing the letter of the animal next to the scientific name.

Observations:

Give help to those who are stuck reminding them to always start at the top.

Evaluation:

Go over the key together. Go over any problems working through the key together.

Modifications:

Have students make their own dichotomous keys using their shoes or given objects in the classroom. Go to http://www.msc.ucla.edu/oceanglobe/pdf/Invertebrates/Inverts_Key_Phyla.pdf to find another key and many pictures you can download about the major invertebrate phyla.

Georgia Standards:

S5L1, S5L4a-b, S5E1a-b, S6CS6c, S6E5g, S7L1a-b, CEC6d, S7L5c, S7CS6c, S8CS6a-c, SCS4a, SCS4b, SCS4c, SCS4d, SCS4e, SCS4f, SCS4g, SCS4h, SCS4i, SCS4j, SCS4k, SCS4l, SCS4m, SCS4n, SCS4o, SCS4p, SCS4q, SCS4r, SCS4s, SCS4t, SCS4u, SCS4v, SCS4w, SCS4x, SCS4y, SCS4z, SCS4aa, SCS4ab, SCS4ac, SCS4ad, SCS4ae, SCS4af, SCS4ag, SCS4ah, SCS4ai, SCS4aj, SCS4ak, SCS4al, SCS4am, SCS4an, SCS4ao, SCS4ap, SCS4aq, SCS4ar, SCS4as, SCS4at, SCS4au, SCS4av, SCS4aw, SCS4ax, SCS4ay, SCS4az, SCS4ba, SCS4bb, SCS4bc, SCS4bd, SCS4be, SCS4bf, SCS4bg, SCS4bh, SCS4bi, SCS4bj, SCS4bk, SCS4bl, SCS4bm, SCS4bn, SCS4bo, SCS4bp, SCS4bq, SCS4br, SCS4bs, SCS4bt, SCS4bu, SCS4bv, SCS4bw, SCS4bx, SCS4by, SCS4bz, SCS4ca, SCS4cb, SCS4cc, SCS4cd, SCS4ce, SCS4cf, SCS4cg, SCS4ch, SCS4ci, SCS4cj, SCS4ck, SCS4cl, SCS4cm, SCS4cn, SCS4co, SCS4cp, SCS4cq, SCS4cr, SCS4cs, SCS4ct, SCS4cu, SCS4cv, SCS4cw, SCS4cx, SCS4cy, SCS4cz, SCS4da, SCS4db, SCS4dc, SCS4dd, SCS4de, SCS4df, SCS4dg, SCS4dh, SCS4di, SCS4dj, SCS4dk, SCS4dl, SCS4dm, SCS4dn, SCS4do, SCS4dp, SCS4dq, SCS4dr, SCS4ds, SCS4dt, SCS4du, SCS4dv, SCS4dw, SCS4dx, SCS4dy, SCS4dz, SCS4ea, SCS4eb, SCS4ec, SCS4ed, SCS4ee, SCS4ef, SCS4eg, SCS4eh, SCS4ei, SCS4ej, SCS4ek, SCS4el, SCS4em, SCS4en, SCS4eo, SCS4ep, SCS4eq, SCS4er, SCS4es, SCS4et, SCS4eu, SCS4ev, SCS4ew, SCS4ex, SCS4ey, SCS4ez, SCS4fa, SCS4fb, SCS4fc, SCS4fd, SCS4fe, SCS4ff, SCS4fg, SCS4fh, SCS4fi, SCS4fj, SCS4fk, SCS4fl, SCS4fm, SCS4fn, SCS4fo, SCS4fp, SCS4fq, SCS4fr, SCS4fs, SCS4ft, SCS4fu, SCS4fv, SCS4fw, SCS4fx, SCS4fy, SCS4fz, SCS4ga, SCS4gb, SCS4gc, SCS4gd, SCS4ge, SCS4gf, SCS4gg, SCS4gh, SCS4gi, SCS4gj, SCS4gk, SCS4gl, SCS4gm, SCS4gn, SCS4go, SCS4gp, SCS4gq, SCS4gr, SCS4gs, SCS4gt, SCS4gu, SCS4gv, SCS4gw, SCS4gx, SCS4gy, SCS4gz, SCS4ha, SCS4hb, SCS4hc, SCS4hd, SCS4he, SCS4hf, SCS4hg, SCS4hh, SCS4hi, SCS4hj, SCS4hk, SCS4hl, SCS4hm, SCS4hn, SCS4ho, SCS4hp, SCS4hq, SCS4hr, SCS4hs, SCS4ht, SCS4hu, SCS4hv, SCS4hw, SCS4hx, SCS4hy, SCS4hz, SCS4ia, SCS4ib, SCS4ic, SCS4id, SCS4ie, SCS4if, SCS4ig, SCS4ih, SCS4ii, SCS4ij, SCS4ik, SCS4il, SCS4im, SCS4in, SCS4io, SCS4ip, SCS4iq, SCS4ir, SCS4is, SCS4it, SCS4iu, SCS4iv, SCS4iw, SCS4ix, SCS4iy, SCS4iz, SCS4ja, SCS4jb, SCS4jc, SCS4jd, SCS4je, SCS4jf, SCS4jg, SCS4jh, SCS4ji, SCS4jj, SCS4jk, SCS4jl, SCS4jm, SCS4jn, SCS4jo, SCS4jp, SCS4jq, SCS4jr, SCS4js, SCS4jt, SCS4ju, SCS4jv, SCS4jw, SCS4jx, SCS4jy, SCS4jz, SCS4ka, SCS4kb, SCS4kc, SCS4kd, SCS4ke, SCS4kf, SCS4kg, SCS4kh, SCS4ki, SCS4kj, SCS4kk, SCS4kl, SCS4km, SCS4kn, SCS4ko, SCS4kp, SCS4kq, SCS4kr, SCS4ks, SCS4kt, SCS4ku, SCS4kv, SCS4kw, SCS4kx, SCS4ky, SCS4kz, SCS4la, SCS4lb, SCS4lc, SCS4ld, SCS4le, SCS4lf, SCS4lg, SCS4lh, SCS4li, SCS4lj, SCS4lk, SCS4ll, SCS4lm, SCS4ln, SCS4lo, SCS4lp, SCS4lq, SCS4lr, SCS4ls, SCS4lt, SCS4lu, SCS4lv, SCS4lw, SCS4lx, SCS4ly, SCS4lz, SCS4ma, SCS4mb, SCS4mc, SCS4md, SCS4me, SCS4mf, SCS4mg, SCS4mh, SCS4mi, SCS4mj, SCS4mk, SCS4ml, SCS4mm, SCS4mn, SCS4mo, SCS4mp, SCS4mq, SCS4mr, SCS4ms, SCS4mt, SCS4mu, SCS4mv, SCS4mw, SCS4mx, SCS4my, SCS4mz, SCS4na, SCS4nb, SCS4nc, SCS4nd, SCS4ne, SCS4nf, SCS4ng, SCS4nh, SCS4ni, SCS4nj, SCS4nk, SCS4nl, SCS4nm, SCS4nn, SCS4no, SCS4np, SCS4nq, SCS4nr, SCS4ns, SCS4nt, SCS4nu, SCS4nv, SCS4nw, SCS4nx, SCS4ny, SCS4nz, SCS4oa, SCS4ob, SCS4oc, SCS4od, SCS4oe, SCS4of, SCS4og, SCS4oh, SCS4oi, SCS4oj, SCS4ok, SCS4ol, SCS4om, SCS4on, SCS4oo, SCS4op, SCS4oq, SCS4or, SCS4os, SCS4ot, SCS4ou, SCS4ov, SCS4ow, SCS4ox, SCS4oy, SCS4oz, SCS4pa, SCS4pb, SCS4pc, SCS4pd, SCS4pe, SCS4pf, SCS4pg, SCS4ph, SCS4pi, SCS4pj, SCS4pk, SCS4pl, SCS4pm, SCS4pn, SCS4po, SCS4pp, SCS4pq, SCS4pr, SCS4ps, SCS4pt, SCS4pu, SCS4pv, SCS4pw, SCS4px, SCS4py, SCS4pz, SCS4qa, SCS4qb, SCS4qc, SCS4qd, SCS4qe, SCS4qf, SCS4qg, SCS4qh, SCS4qi, SCS4qj, SCS4qk, SCS4ql, SCS4qm, SCS4qn, SCS4qo, SCS4qp, SCS4qq, SCS4qr, SCS4qs, SCS4qt, SCS4qu, SCS4qv, SCS4qw, SCS4qx, SCS4qy, SCS4qz, SCS4ra, SCS4rb, SCS4rc, SCS4rd, SCS4re, SCS4rf, SCS4rg, SCS4rh, SCS4ri, SCS4rj, SCS4rk, SCS4rl, SCS4rm, SCS4rn, SCS4ro, SCS4rp, SCS4rq, SCS4rr, SCS4rs, SCS4rt, SCS4ru, SCS4rv, SCS4rw, SCS4rx, SCS4ry, SCS4rz, SCS4sa, SCS4sb, SCS4sc, SCS4sd, SCS4se, SCS4sf, SCS4sg, SCS4sh, SCS4si, SCS4sj, SCS4sk, SCS4sl, SCS4sm, SCS4sn, SCS4so, SCS4sp, SCS4sq, SCS4sr, SCS4ss, SCS4st, SCS4su, SCS4sv, SCS4sw, SCS4sx, SCS4sy, SCS4sz, SCS4ta, SCS4tb, SCS4tc, SCS4td, SCS4te, SCS4tf, SCS4tg, SCS4th, SCS4ti, SCS4tj, SCS4tk, SCS4tl, SCS4tm, SCS4tn, SCS4to, SCS4tp, SCS4tq, SCS4tr, SCS4ts, SCS4tt, SCS4tu, SCS4tv, SCS4tw, SCS4tx, SCS4ty, SCS4tz, SCS4ua, SCS4ub, SCS4uc, SCS4ud, SCS4ue, SCS4uf, SCS4ug, SCS4uh, SCS4ui, SCS4uj, SCS4uk, SCS4ul, SCS4um, SCS4un, SCS4uo, SCS4up, SCS4uq, SCS4ur, SCS4us, SCS4ut, SCS4uu, SCS4uv, SCS4uw, SCS4ux, SCS4uy, SCS4uz, SCS4va, SCS4vb, SCS4vc, SCS4vd, SCS4ve, SCS4vf, SCS4vg, SCS4vh, SCS4vi, SCS4vj, SCS4vk, SCS4vl, SCS4vm, SCS4vn, SCS4vo, SCS4vp, SCS4vq, SCS4vr, SCS4vs, SCS4vt, SCS4vu, SCS4vv, SCS4vw, SCS4vx, SCS4vy, SCS4vz, SCS4wa, SCS4wb, SCS4wc, SCS4wd, SCS4we, SCS4wf, SCS4wg, SCS4wh, SCS4wi, SCS4wj, SCS4wk, SCS4wl, SCS4wm, SCS4wn, SCS4wo, SCS4wp, SCS4wq, SCS4wr, SCS4ws, SCS4wt, SCS4wu, SCS4wv, SCS4ww, SCS4wx, SCS4wy, SCS4wz, SCS4xa, SCS4xb, SCS4xc, SCS4xd, SCS4xe, SCS4xf, SCS4xg, SCS4xh, SCS4xi, SCS4xj, SCS4xk, SCS4xl, SCS4xm, SCS4xn, SCS4xo, SCS4xp, SCS4xq, SCS4xr, SCS4xs, SCS4xt, SCS4xu, SCS4xv, SCS4xw, SCS4xx, SCS4xy, SCS4xz, SCS4ya, SCS4yb, SCS4yc, SCS4yd, SCS4ye, SCS4yf, SCS4yg, SCS4yh, SCS4yi, SCS4yj, SCS4yk, SCS4yl, SCS4ym, SCS4yn, SCS4yo, SCS4yp, SCS4yq, SCS4yr, SCS4ys, SCS4yt, SCS4yu, SCS4yv, SCS4yw, SCS4yx, SCS4yy, SCS4yz, SCS4za, SCS4zb, SCS4zc, SCS4zd, SCS4ze, SCS4zf, SCS4zg, SCS4zh, SCS4zi, SCS4zj, SCS4zk, SCS4zl, SCS4zm, SCS4zn, SCS4zo, SCS4zp, SCS4zq, SCS4zr, SCS4zs, SCS4zt, SCS4zu, SCS4zv, SCS4zw, SCS4zx, SCS4zy, SCS4zz

Student's Name: _____

Date: _____

Animal Dichotomous Key

- 1a. Organism has an exoskeleton (go to question 2)
- 1b. Organism has an endoskeleton or no skeleton (go to question 3)

- 2a. Organism has thin black body and a red stripe on its abdomen (go to question 4a.)
- 2b. Organism has a thick black body and large grey/brown abdomen (go to question 4b.)

- 3a. Organism dwells on land (go to question 5)
- 3b. Organism dwells in the ocean (go to question 6)

- 4a. Organism is *Lactrodectus hasselti* (___)
- 4b. Organism is *Atrax infensus* (___)

- 5a. Organism is totally covered in smooth scale-like skin (go to question 7)
- 5b. Organism has a textured coat or covering (go to question 8)

- 6a. Organism has 8 thick tentacles (go to question 9a.)
- 6b. Organism has many string-like tentacles (go to question 9b.)

- 7a. Scale-like skin is patterned in horizontal stripes over the body (go to question 10a.)
- 7b. Scale-like skin has one block color over most of its body (go to question 10b.)

- 8a. Has fine fur-like covering (go to question 11)
- 8b. Has feather-like covering over most of its body (go to question 12)

- 9a. Organism is *Hapalochlaena lunulata* (___)
- 9b. Organism is *Chironex fleckeri* (___)

- 10a. Organism is *Pseudonaja texilis* (___)
- 10b. Organism is *Pseudechis porphyricus* (___)

- 11a. Has two opposing thumbs on the front paws (go to question 13a.)
- 11b. Has no opposing thumb on the front paws (go to question 13b.)

- 12a. Has large bone-like structure on a bald, blue-skinned head (go to question 14a.)
- 12b. Has feather-like covering over head with no bone-like structure (go to question 14b.)

- 13a. Organism is *Phascolatarctos cinerus* (___)
- 13b. Organism is *Vombatus ursinus* (___)

- 14a. Organism is *Casuarius casuarius* (___)
- 14b. Organism is *Dromaius novaehollandiae* (___)

Animal Pictures for Dichotomous Key



A.



B.



C.



D.



E.



F.



G.



H.



I.



J.

Animal Dichotomous Answer Key

- 1a. Organism has an exoskeleton (go to question 2)
- 1b. Organism has an endoskeleton or no skeleton (go to question 3)

- 2a. Organism has thin black body and a red stripe on its abdomen (go to question 4a.)
- 2b. Organism has a thick black body and large grey/brown abdomen (go to question 4b.)

- 3a. Organism dwells on land (go to question 5)
- 3b. Organism dwells in the ocean (go to question 6)

- 4a. Organism is *Lactrodectus hasselti* (**G**)
- 4b. Organism is *Atrax infensus* (**D**)

- 5a. Organism is totally covered in smooth scale-like skin (go to question 7)
- 5b. Organism has a textured coat or covering (go to question 8)

- 6a. Organism has 8 thick tentacles (go to question 9a.)
- 6b. Organism has many string-like tentacles (go to question 9b.)

- 7a. Scale-like skin is patterned in horizontal stripes over the body (go to question 10a.)
- 7b. Scale-like skin has one block color over most of its body (go to question 10b.)

- 8a. Has fine fur-like covering (go to question 11)
- 8b. Has feather-like covering over most of its body (go to question 12)

- 9a. Organism is *Hapalochlaena lunulata* (**F**)
- 9b. Organism is *Chironex fleckeri* (**C**)

- 10a. Organism is *Pseudonaja texilis* (**E**)
- 10b. Organism is *Pseudechis porphyricus* (**I**)

- 11a. Has two opposing thumbs on the front paws (go to question 13a.)
- 11b. Has no opposing thumb on the front paws (go to question 13b.)

- 12a. Has large bone-like structure on a bald, blue-skinned head (go to question 14a.)
- 12b. Has feather-like covering over head with no bone-like structure (go to question 14b.)

- 13a. Organism is *Phascolatarctos cinerus* (**B**)
- 13b. Organism is *Vombatus ursinus* (**H**)

- 14a. Organism is *Casuarus casuarius* (**J**)
- 14b. Organism is *Dromaius novaehollandiae* (**A**)