



KNOX  
GRAMMAR  
SCHOOL

STATE

# DA VINCI DECATHLON 2019

CELEBRATING THE ACADEMIC GIFTS OF STUDENTS  
IN YEARS 7 & 8



## CODE BREAKING

TEAM NUMBER \_\_\_\_\_

1	2	3	4	5	6	7	8	9	10	bonus	Total	Rank
/5	/5	/5	/5	/5	/5	/5	/5	/5	/5	/3	/53	

# CODING THE LANDSCAPE

“THE VOYAGE OF DISCOVERY IS NOT IN SEEKING NEW LANDSCAPES BUT IN HAVING NEW EYES” (MARCEL PROUST).

You are to embark upon a journey through the landscape of the Facebook rooftop garden. 2,800 employees from the building beneath the 9 acre garden have the opportunity to use the spaces in the gardens to meet, recreate, relax and think. Much can be said about clearing the mind to allow genuine creativity to emerge.



Now it's your turn....

(Photos by Carol Moholt, Pacific Horticultural Society)

Your task is to collect a variety of coded snippets of wisdom. There will be a mixture of sayings and quotes alternating with clues to plot your way through the garden. Plot these on the map provided to find another (hidden) landscape.



Each code is awarded 5 marks each and the final codeword, 3 bonus marks. Make sure that you enter your answers in the Answer Page at the end of the questions. This is the page that will be marked.

## CODE 1

Fogrnzgvob dv mvvw gl ivxltmrav gszg dsrov sfnzmfh xlmgrmfv gl yfrow  
fiyzm ozmwhxzkvh, dv hsziv gsvhv hkzxvh drgs lgsvih hkvxrvh. Wzerw  
Hfafpr

## CODE 2

Plot these clues:

<b>Nectarine</b>	<b>Fish</b>	<b>Eggs</b>	<b>Edamame</b>
<b>Icecream</b>	<b>Oranges</b>		<b>Inca berries</b>
<b>Nuts</b>	<b>Udon</b>		<b>Grapes</b>
<b>Edam</b>	<b>Rice</b>		<b>Horseradish</b>
			<b>Tamarillo</b>

## CODE 3

Find the message within:

DEMAEHRWVSTHMLNSNLNSAEOHMNOSBLTADICVRHOEHRWFEAHMTERARLGOSEDR  
RASRWEEEIIT EAY ADADADCPSFUAPS I I I YNDSOETENWEEEEEELTOEHGETEI IU LAES  
WRALRAES.  
EELDEMR  
JNTASCS  
OAHNAK

## CODE 4

This will help you find your way around the next part of the map.

7 6 C 0 6 ^ L 7 7 0 7 7 6 C 6 7 0 7 7 7  
C 7 7 0 7 7 7 7 7 0 7 7 6 7 7 7 7 7 7  
C 0 6 6 ^ 0 7 7 7 7 7 7 7 7 7 7 7

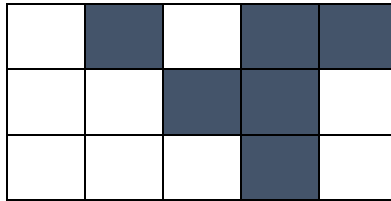
## CODE 5

The key should be obvious but then, maybe not.

d t e i t i l o k    i a h k t h n t t    e o i c s h a n t  
e t e a d w t o k    y a l i l a w l l    w r e t i o o s h  
t t u e r n h u f    t c s d v e o o i    r o w h d e t n e  
r a l o d e s n f    c w s p h s a e e    l o t e r e p p d  
t u b c n o e t t    v d a r h e e t h    c e c a o e h t n  
n u o o s e j r y    l x x e x e v x s

## CODE 6

The grid will show you all three stops but take care as there is a mixture of letters and numbers – two of one, one of the other.



## CODE 7

Joan Kirner spoke of the Australian landscape:

.lrtnc ry dst r hchw scrf f sns sht tg y dn .tht vhc t gnhc tmlc nkt  
s't .dnl ht nw t'nd w, s snw dnl ht tht slr t gnnngb ylwls r , knht \_  
, snlrts dn .ntn ht r flsry htw dtcnnc yllr tn r'y ,dnl ht htw dtcnnc  
r'y ssln , wh f gndntsr dn wn \_ m thgrb t

## CODE 8

Time to plot:

16 73 R22 7 G 85 52 42 23 E T8 28 D 90 A60 90 E7 E

## CODE 9

I stress the uniqueness of the Australian landscape and

its meteorological and multiple content AREA BOLD

## CODE 10

843 968 23288 2686879 47 2 526372273 63 843 6463 - 5646 65736

**BONUS:** Plot your clues where appropriate. What is the hidden codeword?



KEY

- 1 Roof access at building lobbies
- 2 Roof access at exterior ramp
- 3 Cafe
- 4 Art installation

- 5 Sunken Garden
- 6 Pop-up
- 7 Pop-down
- 8 Shade structure

- 9 Overlook
- 10 Event lawn
- 11 Office level garden terraces
- 12 Site level landscape

LANDSCAPE TYPES

- A Coastal sage scrub
- B Meadow & perennial garden
- C Riparian seasonal garden
- D East Glade & Ceanothus Garden
- E Coastal Prairie
- F West Glade & Manzanita Garden

ANSWER SHEET:

TEAM NO: \_\_\_\_\_

CODE	MESSAGE	MARK
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
bonus		



# END OF PAPER

## Periodic Table of the Elements

1 <b>H</b> Hydrogen 1.01																	2 <b>He</b> Helium 4.00
3 <b>Li</b> Lithium 6.94	4 <b>Be</b> Beryllium 9.01											5 <b>B</b> Boron 10.81	6 <b>C</b> Carbon 12.01	7 <b>N</b> Nitrogen 14.01	8 <b>O</b> Oxygen 16.00	9 <b>F</b> Fluorine 19.00	10 <b>Ne</b> Neon 20.18
11 <b>Na</b> Sodium 22.99	12 <b>Mg</b> Magnesium 24.31											13 <b>Al</b> Aluminum 26.98	14 <b>Si</b> Silicon 28.09	15 <b>P</b> Phosphorus 30.97	16 <b>S</b> Sulfur 32.06	17 <b>Cl</b> Chlorine 35.45	18 <b>Ar</b> Argon 39.95
19 <b>K</b> Potassium 39.10	20 <b>Ca</b> Calcium 40.08	21 <b>Sc</b> Scandium 44.96	22 <b>Ti</b> Titanium 47.88	23 <b>V</b> Vanadium 50.94	24 <b>Cr</b> Chromium 51.99	25 <b>Mn</b> Manganese 54.94	26 <b>Fe</b> Iron 55.85	27 <b>Co</b> Cobalt 58.93	28 <b>Ni</b> Nickel 58.69	29 <b>Cu</b> Copper 63.55	30 <b>Zn</b> Zinc 65.38	31 <b>Ga</b> Gallium 69.72	32 <b>Ge</b> Germanium 72.63	33 <b>As</b> Arsenic 74.92	34 <b>Se</b> Selenium 78.97	35 <b>Br</b> Bromine 79.90	36 <b>Kr</b> Krypton 84.80
37 <b>Rb</b> Rubidium 85.47	38 <b>Sr</b> Strontium 87.62	39 <b>Y</b> Yttrium 88.91	40 <b>Zr</b> Zirconium 91.22	41 <b>Nb</b> Niobium 92.91	42 <b>Mo</b> Molybdenum 95.95	43 <b>Tc</b> Technetium 98.91	44 <b>Ru</b> Ruthenium 101.07	45 <b>Rh</b> Rhodium 102.91	46 <b>Pd</b> Palladium 106.42	47 <b>Ag</b> Silver 107.87	48 <b>Cd</b> Cadmium 112.41	49 <b>In</b> Indium 114.82	50 <b>Sn</b> Tin 118.71	51 <b>Sb</b> Antimony 121.76	52 <b>Te</b> Tellurium 127.6	53 <b>I</b> Iodine 126.90	54 <b>Xe</b> Xenon 131.29
55 <b>Cs</b> Cesium 132.91	56 <b>Ba</b> Barium 137.33	57-71 Lanthanides	72 <b>Hf</b> Hafnium 178.49	73 <b>Ta</b> Tantalum 180.95	74 <b>W</b> Tungsten 183.85	75 <b>Re</b> Rhenium 186.21	76 <b>Os</b> Osmium 190.23	77 <b>Ir</b> Iridium 192.22	78 <b>Pt</b> Platinum 195.08	79 <b>Au</b> Gold 196.97	80 <b>Hg</b> Mercury 200.59	81 <b>Tl</b> Thallium 204.38	82 <b>Pb</b> Lead 207.20	83 <b>Bi</b> Bismuth 208.98	84 <b>Po</b> Polonium [208.98]	85 <b>At</b> Astatine 209.98	86 <b>Rn</b> Radon 222.02
87 <b>Fr</b> Francium 223.02	88 <b>Ra</b> Radium 226.03	89-103 Actinides	104 <b>Rf</b> Rutherfordium [261]	105 <b>Db</b> Dubnium [262]	106 <b>Sg</b> Seaborgium [266]	107 <b>Bh</b> Bohrium [264]	108 <b>Hs</b> Hassium [269]	109 <b>Mt</b> Meitnerium [278]	110 <b>Ds</b> Darmstadtium [281]	111 <b>Rg</b> Roentgenium [280]	112 <b>Cn</b> Copernicium [285]	113 <b>Nh</b> Nihonium [286]	114 <b>Fl</b> Flerovium [289]	115 <b>Mc</b> Moscovium [289]	116 <b>Lv</b> Livermorium [293]	117 <b>Ts</b> Tennessine [294]	118 <b>Og</b> Oganesson [294]
57 <b>La</b> Lanthanum 138.91	58 <b>Ce</b> Cerium 140.12	59 <b>Pr</b> Praseodymium 140.91	60 <b>Nd</b> Neodymium 144.24	61 <b>Pm</b> Promethium 144.91	62 <b>Sm</b> Samarium 150.36	63 <b>Eu</b> Europium 151.96	64 <b>Gd</b> Gadolinium 157.25	65 <b>Tb</b> Terbium 158.93	66 <b>Dy</b> Dysprosium 162.50	67 <b>Ho</b> Holmium 164.93	68 <b>Er</b> Erbium 167.26	69 <b>Tm</b> Thulium 168.93	70 <b>Yb</b> Ytterbium 173.06	71 <b>Lu</b> Lutetium 174.97			
89 <b>Ac</b> Actinium 227.03	90 <b>Th</b> Thorium 232.04	91 <b>Pa</b> Protactinium 231.04	92 <b>U</b> Uranium 238.03	93 <b>Np</b> Neptunium 237.05	94 <b>Pu</b> Plutonium 244.06	95 <b>Am</b> Americium 243.06	96 <b>Cm</b> Curium 247.07	97 <b>Bk</b> Berkelium 247.07	98 <b>Cf</b> Californium 251.08	99 <b>Es</b> Einsteinium [254]	100 <b>Fm</b> Fermium 257.10	101 <b>Md</b> Mendelevium 258.10	102 <b>No</b> Nobelium 259.10	103 <b>Lr</b> Lawrencium [262]			

- Alkali Metal
- Alkaline Earth
- Transition Metal
- Basic Metal
- Metalloid
- Nonmetal
- Halogen
- Noble Gas
- Lanthanide
- Actinide

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todd@sciencecity.org