

NAME:	
TEACHER: _	_

YOU ARE TOLD BY THE SUPERVISOR TO BEGIN

DO NOT OPEN THE EXAM PAPER UNTIL

Science 1206

SAMPLE COMMON EXAMINATION

2009

Value: 100%

General Instructions

This examination consists of four sections corresponding to the four units in the course. Each section contains multiple choice and constructed response questions.

Multiple Choice (60%)

Select the letter of the correct response from those provided. EITHER shade the letter on your computer scorable card OR place the letter in the blank provided on your Multiple Choice Answer Sheet, whichever format is being used by your school for this exam. **Do ALL questions in this section**.

Constructed Response (40%)

Answer ALL questions fully and concisely in the space provided.

Student Checklist

The items below are your responsibility. Please ensure that they are completed.

- □ Write your name and teacher's name on the top of this page.
- □ Write your name, teacher's name, course name and number on the Part I answer sheet.
- □ Check the exam to see that there are no missing pages. **ALL MATERIALS MUST BE PASSED IN WITH THIS EXAM.** Use your time wisely. Good luck!

Science 1206 Common Exam 2009 (Sample)

Section I (Life Science) 25% Multiple Choice 1% each

played by a decomposer?

	a. Consumer	c.	Niche
	b. Habitat	d.	Saprobe
2.	What type of competition is represented by	a c	hickadee and a warbler competing for nesting space?
	a. Commensalism	c.	Interspecific
	b. Intraspecific	d.	Symbiosis
3.	Vegans eat no meat, fish or dairy products.	Wh	nat category of consumer would they fit into?
	a. Carnivore	c.	Omnivore
	b. Herbivore	d.	Producer
4.	Lichens appearing on newly formed lava re	pre	sent which type of plant community?
	a. Climax	c.	Indigenous
	b. Exotic	d.	Pioneer
5.	Breeding bird populations were severely af America. What was the cause of this reduct		red by DDT in the late 1960's and early 1970's in North in population?
	a. Bioaccumulation	c.	Pesticide resistance
	b. Habitat destruction	d.	Water solubility
6.	It was once believed that Newfoundland har resource has changed. What term describes		n unlimited supply of codfish, but how we view this s change?
	a. Paradigm	c.	Resource management
	b. Paradigm shift	d.	Sustainability
7.	What term describes the relationship betwe factors in that environment?	en a	all species in an environment and the biotic and abiotic
	a. Ecosystem	c.	Habitat
	b. Food web	d.	Niche
8.	The clownfish and the sea anemone have a predators. What type of symbiotic relations		tionship in which the anemone hides the clownfish from its does this represent?
	a. Commensalism	c.	Parasitism
	b. Mutualism	d.	Predation
9.	Two bull moose are fighting over a lone fer	mal	e moose. What type of competition does this represent?
	a. Commensalism	c.	Interspecific
	b. Intraspecific	d.	Symbiosis

1. Decomposers are responsible for breaking down dead organic material in an ecosystem. What is the role

	a.	Competition	c.	Disease
	b.	Death	d.	Space
11.		nich Canadian biome receives less than loue grass and is home to the bison?	1000	em of precipitation, has rich, fertile soil, is dominated by
	a.	Boreal forest	c.	Grassland
	b.	Deciduous forest	d.	Tundra
12.	Wł	nich category of organisms must be pres	ent i	in all food chains?
	a.	Decomposers	c.	Secondary consumer
	b.	Producers	d.	Tertiary consumer
13.				rm liquids. If the oceans warm, how could this gas in the atmosphere and its effect on global warming?
	a.	Decrease CO_2 , decrease global warming	c.	Increase CO ₂ , decrease global warming
	b.	Decrease CO ₂ , increase global warming	d.	Increase CO ₂ , increase global warming
14.				has resulted in an increase in both nitrate and phosphate impact on the aquatic organisms in the waterway?
	a.	Assimilation	c.	Biomagnification
	b.	Bioaccumulation	d.	Eutrophication
15.		% of the energy is lost as heat at each tropic third tropic level if the producers contain 10		el if the food chain, how much energy would be available for 0 kJ?
	a.	1	c.	100
16.	Th	10 e local golf course regularly aerates its gocedure?	d. greei	1000 ns. Which would be negatively impacted by this
	a.	Denitrifying bacteria	c.	Primary consumers
	b.	Nitrifying bacteria	d.	Producers

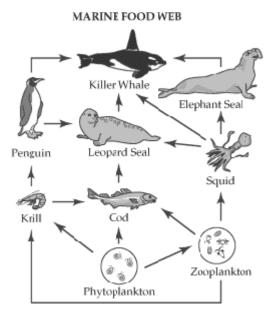
10. Which is an abiotic factor?

Section I

Constructed Response (9%)

]	Nalcor, an energy company, is proposing to run a high voltage transmission line through Gros Morne National Park, which is recognized as a World Heritage Site for its untouched natural beauty. This power line will extend 40 m high and run through 65 km of the park. Explain how opposition to this power line as an example of a paradigm shift and comment on the possible impact on the local ecosystem. (3 Marks)
stunted	er a forest fire, spruce trees grow very close together which results in the death of some trees and the growth of many others. The resulting trees have very thin trunks. Identify the type of competition and otic factors which result in this type of growth. (3 Marks)

19. Due to overfishing, the cod has almost disappeared from this marine ecosystem. Comment on the impact that the removal of this species will have on this marine food web. (3 Marks)



Section II (Motion) 25%

Multiple Choice 1% each

- 20. An object travels in a straight line at a constant speed. Which term best describes the motion?
 - a. Accelerating

c. Stopped

b. Decelerating

- d. Uniform
- 21. The area under a velocity-time graph represents what quantity?
 - a. Acceleration

c. Displacement

b. Distance

- d. Velocity
- 22. How many significant digits are in the number 0.200?
 - a. 1

c. 3

b. 2

- d. 4
- 23. The rate of change in velocity per unit of time is known as...
 - a. Acceleration

c. Displacement

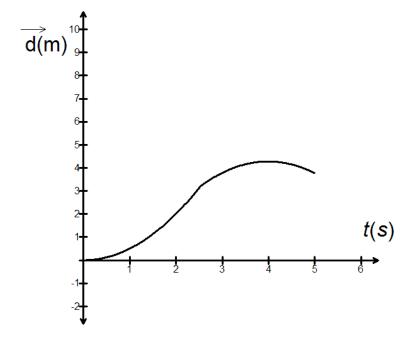
b. Distance

- d. Speed
- 24. A police officer is recording the speeds of vehicles on the Trans Canada Highway using a radar gun. What is the police officer recording?
 - a. Average speed

c. Instantaneous speed

b. Constant speed

- d. Uniform motion
- 25. At which time is the object represented in the graph moving fastest?



a. 1 s

c. 3 s

b. 2 s

- d. 4 s
- 26. Express 3561.32 in scientific notation with two significant figures.
 - a. 3.5×10^3

c. 3.56×10^3

b. 3.6×10^3

d. 35.6×10^2

27. Mary walked for 2.1 h along a portion of the Trans Canada Trail at a speed of 3.2 km/h. What distance did Mary travel?

a. 0.66 km

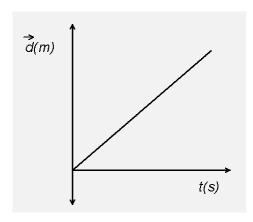
c. 3.2 km

b. 1.5 km

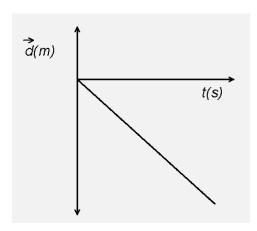
d. 6.7 km

28. Which graph represents an object with an increasing velocity?

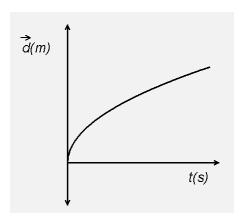
a.



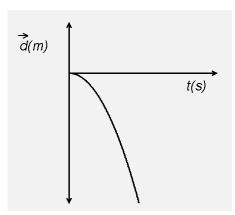
c



b.



d.



29. A car initially moving at 18 m/s comes to a stop as it approaches a stop sign. If it takes 8.0 seconds to stop, calculate the acceleration of the car.

a. -144 m/s^2

c. 2.25 m/s^2

b. -2.25 m/s^2

d. 144 m/s²

30. An object travelling with uniform motion creates a series of dots as it moves along a piece of paper. Which pattern below represents the objects motion?

a.



b.



31. During five trials of an experiment, a student determined the acceleration due to gravity (g) as follows: (The true value is 9.8 m/s²). Which would best describe their results?

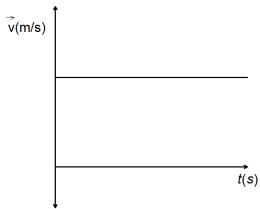
Trial	$\frac{g}{(m/s^2)}$
1	4.1
2	3.9
3	4.3
4	4.4
5	4.1

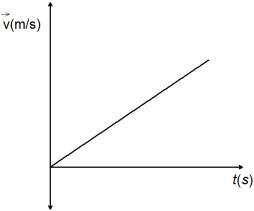
- a. Not accurate, not precise
- c. Accurate, but not precise
- b. Not accurate, but precise
- d. Accurate and precise
- 32. The distance-time data below was collected for a moving object. Which graph represents the object's motion?

\vec{d} (m)	t(s)
0	0
1	1
4	2
9	3
16	4
25	5

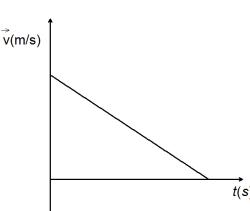
a.



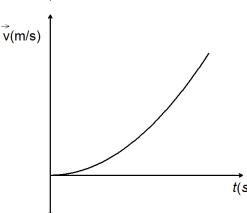




b.



d.



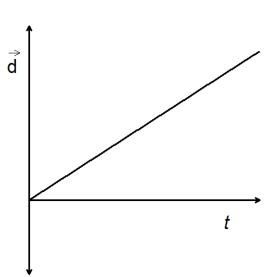
33. The velocity-time data table shown was collected for a moving object. Which displacement-time graph matches the data from the table?

t(s)	v(m/s)
0	0
1	3.5
2	7.0
3	10.5
4	14.0

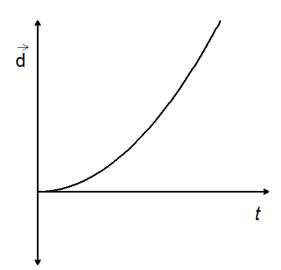
a.



c.

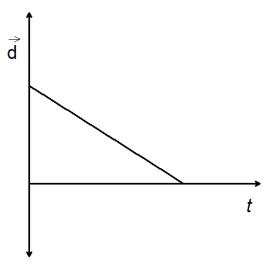


b.



d.

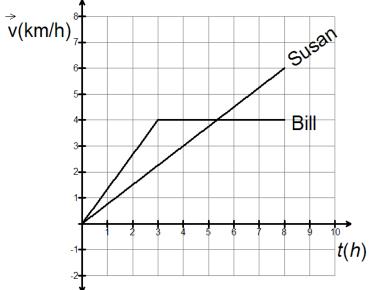
t



Section II

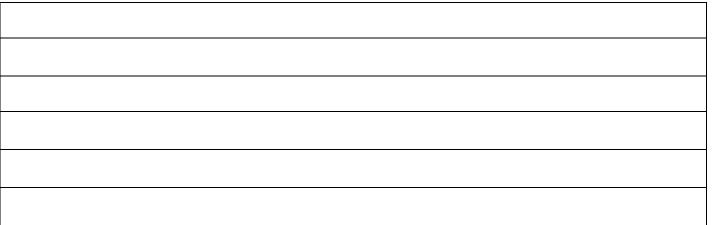
Constructed Response (11%)

34. Susan and Bill leave home at the same time but are travelling at different velocities. Who has travelled further after 8.0 seconds? (**3 Marks**)

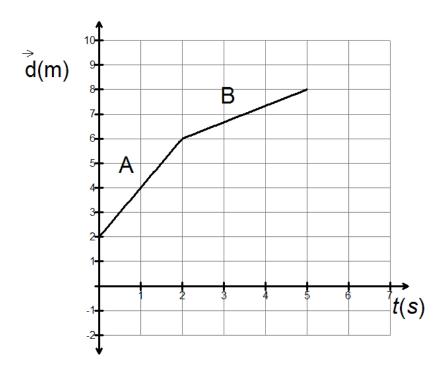




	Joe leaves his house and jogs for 30 minutes, travelling 2 km. Can you determine his average velocity?
Exp	plain. (2 Marks)



36. Using the following graph of an object moving North..... (3 Marks)

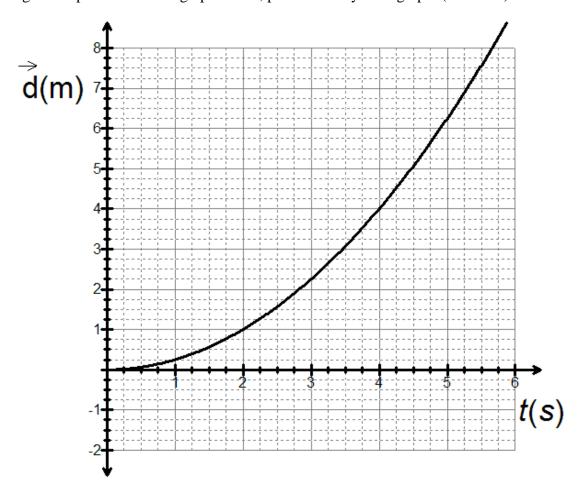


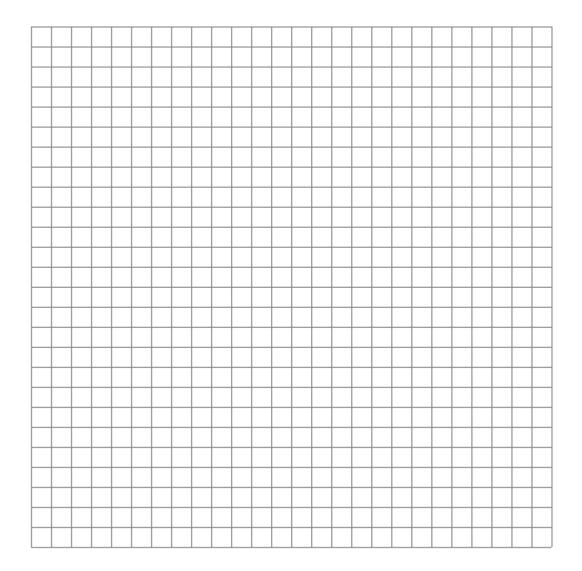
i) Determine the velocity of the object during stage A.

ii) Determin	ii) Determine the velocity of the object during stage B.				

iii) Determine the average velocity of the object over both stages?

37. Using the displacement-time graph below, plot a velocity-time graph. (3 Marks)





Section III (Chemistry) 25%

Multiple Choice 1% each

38. What category of hazardous substance does this symbol represent?



a. Biohazard

c. Corrosive

b. Compressed gas

d. Reactive

39. Which is a molecular compound?

a. AlN

c. NH₄NO₃

b. NH₃

d. SnO

40. What is a substance that can conduct electricity when it dissolves in water?

a. Electrolyte

c. Molecular compound

b. Insoluble compound

d. Non-electrolyte

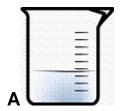
41.Wl	41. When a glowing splint is held in a test tube and it reignites, what gas is being produced by the reaction?					
	a.	Carbon dioxide	c.	Oxygen		
	b.	Hydrogen	d.	Water vapour		
42.	Wl	hat is the common name for H ₂ O ₂ ?				
	a.	Ethanol	c.	Methanol		
	b.	Hydrogen peroxide	d.	Water		
43.	Wl	hat is the IUPAC name for $V_3(BO_3)_5$?				
	a.	Vanadium borate	c.	Vanadium (V) borate		
	b.	Vanadium (III) borate	d.	Vanadium boride		
44.	Wl	hat is the correct chemical formula for tin	n (I	V) oxide hexahydrate?		
	a.	SnO•7H ₂ O	c.	SnO_2 •7 H_2O		
	b.	SnO•6H ₂ O	d.	SnO ₂ •6H ₂ O		
45.	Wl	hich is an example of a physical change?)			
	a.	Food cooking	c.	Paint drying		
	b.	Milk spoiling	d.	Water boiling		
46.	If o	copper metal reacts with silver nitrate so	lutio	on, what type of reaction occurs?		
	a.	Double replacement	c.	Hydrocarbon Combustion		
	b.	Formation	d.	Single Replacement		
47.	Wl	hich compound is insoluble in water?				
	a.	$Al(NO_3)_3$	c.	$Al(CH_3COO)_3$		
	b.	Al(OH) ₃	d.	$(NH_4)_3PO_4$		
48.	Wl	hich compound is molecular?				
	a.	Ammonium hydroxide	c.	Lithium oxide		
	b.	Hydrogen peroxide	d.	Gallium fluoride dihydrate		
49.	Wl	hat is the formula for nitrous acid?				
	a.	$H_3N(aq)$	c.	$HNO_2(aq)$		
	b.	HNO ₃ (aq)	d.	$HNiO_2(aq)$		
50.	Wl	hich chemical equation predicts the corre	ect p	products and is properly balanced?		
	a.	$CH_{4(S)} + O_{2(g)} \longrightarrow CO_{2(g)} + 2 H_2O_{(g)}$	c.	$CH4(g) + 3 O_2(g) \rightarrow CO_2(g) + 2 H_2O_2(l)$		
	b.	$CH_{4(g)} + 2 \ O_{2(g)} \rightarrow CO_{2(g)} + 2 \ H_2O_{(g)}$	d.	$CH_{4(g)} + 2 \ O_{2(g)} \rightarrow CO_{(g)} + 2 \ H_{2}O_{(g)}$		
51.	-	propane burns in air, as shown, what mas opane reacts with 125.0g of oxygen gas a		f water vapor should you expect to be produced if 50.0g of 76.0 g of carbon dioxide are produced?		
		$C_3H_8(g) + 5$	5O ₂ ($(g) \rightarrow 3 CO_2(g) + 4 H_2O(g)$		
	a.	49.0 g	c.	99.0 g		
	b.	50.0 g	d.	175.0 g		

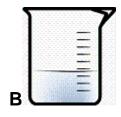
Section III

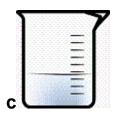
Constructed Response (11%)

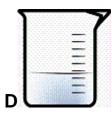
52. <i>A</i>	A solution of barium nitrate $Ba(NO_3)_{2 \text{ (aq)}}$ reacts with aqueous potassium sulfate K_2SO_4 (aq). Predict the products, with the correct state, and balance the equation. (3 Marks)
53.	You are walking your dog on an abandoned side road and you see an old car wreck. What type of chemical reaction would the metal of the car have undergone, and what indication is there that a reaction
ı	has occurred? (3 Marks)
54.	Acetylene gas is used at construction sites when welding metals together. What two WHMIS symbols would you expect to see on this chemical at a work site? (2 Marks)

55. Samples of potassium hydroxide, sucrose, calcium carbonate, copper (II) sulfate are added individually to 50.0 mL of water in a beaker as shown above. Using the information provided in the table, correctly identify the chemical formula for the solution in each beaker. (3 Marks)









Beaker	Formula	Soluble	Conductivity	Solution colour	Litmus Paper	
A		Does not dissolve	none	Not applicable	No change	
В	В		good	Clear, colorless	Red turns blue	
С		yes	good	Clear blue	No change	
D		yes	none	Clear, colorless	No change	

Section IV (Weather) 25% Multiple Choice 1% each

a. Mesosphere

c. Thermosphere

b. Stratosphere

- d. Troposphere
- 57. What atmospheric layer is closest to the earth?
 - a. Exosphere

c. Thermosphere

b. Stratosphere

- d. Troposphere
- 58. Which conditions would most likely produce fog?
 - a. Cool air over cool land
- c. Warm air over cool water
- b. Cool air over cool water
- d. Warm air over warm land
- 59. Which of the following causes prevailing wind patterns?
 - a. Air masses

c. Continents

b. Coriolis effect

- d. Ocean currents
- 60. How would temperature and atmospheric pressure change as you climbed Mount Everest?
 - a. Temperature decreases pressure decreases
- c. Temperature increases pressure decreases
- b. Temperature decreases pressure increases
- d. Temperature increases pressure increases

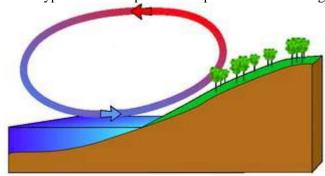
61. What term describes the percentage of light that an object reflects? a. Albedo Photosynthesis d. Refraction b. Dispersion 62. Which of the following is a cloud type? a. Advective Convective b. Conductive d. Radiant 63. Which instrument is used to measure atmospheric pressure? a. Anemometer Hygrometer Barometer Thermometer 64. Which instrument is used to measure wind speed? Hydrometer Anemometer b. Barometer d. Thermometer 65. Which types of clouds would most likely form in a mountainous region of Canada? a. Convective c. Frontal d. Orographic b. Fog 66. In which which section of the heating curve below is water in its gaseous form? 140 D Temperature (°C) \mathbf{C} 100 80 60 В 40 20 0 -20 Time C b. B d. D 67. What is the driving force of the water cycle? c. Water ocean currents d. Wind b. sun 68. An area of forest was destroyed by fire about sixty years ago. What would the dominant type of vegetation be in the area today? a. lichens c. shrubs

d.

trees

b. moss

69. What type of weather pattern is represented in the diagram below?



a. land breeze

c. hurricane

b. sea breeze

d. Thermal

70. What does the instrument below measure?

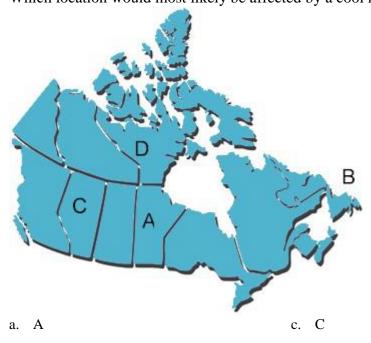


- a. Atmospheric pressure
- c. Temperature

b. Specific gravity

d. Wind speed

71. Which location would most likely be affected by a cool moist air mass?



b. B

d. D

Section IV

Constructed Response (9%)

72.A pilot experiences a sudden uplift while flying over an open area on a warm day. (3 Marks)



- a) What type of air movement is the pilot experiencing?
- b) Explain why this type of air movement exists.

73. On a warm summer's day a ship is stranded offshore with no wind to fill its sails. As the sun sets, would you expect any change in the ship's position? Explain, using a diagram. (3 Marks)



Explanation	Diagram			
Explanation				
	Explanation			

east coast experienced 3 days of fog. Was this a typical summer? Explain why, or why not, based on what you know about formation of fog in Newfoundland. (3 Marks)						

74. Corner Brook, on the west coast of Newfoundland, experienced 15 days of fog last summer, while Argentia, on the

Science 1206 Common Exam 2009 (Sample) Answer Section

1.	ANS: C	PTS:	1	DIF:	Level 1	OBJ:	214-1
2.	ANS: C	PTS:	1	DIF:	Level1		
3.	ANS: B	PTS:	1	DIF:	Level1	OBJ:	214-1
4.	ANS: D	PTS:	1	DIF:	Level 1	OBJ:	214-3 2.13-7
5.	ANS: A	PTS:	1	DIF:	Level 1	OBJ:	318-2
6.	ANS: B	PTS:	1	DIF:	Level 1	OBJ:	215-1 114-1
7.	ANS: A	PTS:	1	DIF:	Level 1	OBJ:	318-5
8.	ANS: A	PTS:	1	DIF:	Level 1	OBJ:	318-5
9.	ANS: B	PTS:	1	DIF:	Level 1	OBJ:	214-1
10.	ANS: D	PTS:	1	DIF:	Level 1	OBJ:	318-5
11.	ANS: C	PTS:	1	DIF:	Level 2	OBJ:	318-3
12.	ANS: B	PTS:	1	DIF:	Level 2	OBJ:	214-1
13.	ANS: D	PTS:	1	DIF:	Level 2	OBJ:	213-8 212-4
14.	ANS: D	PTS:	1	DIF:	Level 3	OBJ:	318-1
15.	ANS: C	PTS:	1	DIF:	2		
16.	ANS: A	PTS:	1	DIF:	Level 3	OBJ:	213-8 212-4 331-6
1.7	4 3 70						

17. ANS:

This is an example of a paradigm shift because in the past we believed that our resources were limitless and here for our use exclusively. Nowadays we are more aware of the consequences of our actions when we are constructing projects such as this. In the past we would have just put this line wherever we wanted with no regard for the local habitat. Today we are much more aware of our environmental footprint and such actions as this power line are met with much more opposition as we seek to maintain our untouched areas. The local ecosystem will be impacted by the cutting of forest to put the lines in place and this will impact any organism relying on the trees. Noise pollution may also be an issue.

PTS: 3 DIF: Level 3 OBJ: 114-1 215-1 214-3 213-7

18. ANS:

This is an example of intraspecific competition as the trees are competing with other spruce trees for space, light and water. The fact that the trees are stunted in their growth and quite close together suggests that they do not have enough space to grow to a good size. The death of some trees may suggest that they did not have adequate water and or light to sustain growth.

PTS: 3 DIF: Level 2 OBJ: 214-1 318-5

19. ANS:

The zooplankton, phytoplankton and krill populations may increase as one of their primary predators has been drastically reduced in their numbers. The leopard seal is the only organism in this food web which feeds directly on the cod, so its population may decrease unless it is able to feed on more squid and penguins. This may then impact the squid and penguin population numbers in this food web.

PTS: 3 DIF: Level 2 OBJ: 214-1 215-1

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20. ANS: D
                        PTS: 1
                                            DIF: Level I
                                                                REF: Guide p. 98 (212-7 | 325-1 | 325-2)
21. ANS: C
                        PTS: 1
                                            DIF: Level I
                                                                REF: 212-7 | 325-1 | 325-2
22. ANS: C
                        PTS: 1
                                            DIF: Level I
                                                                REF: 214-10
23. ANS: A
                        PTS: 1
                                            DIF:
                                                  Level I
                                                                REF: 212-7 | 214-5 | 325-4
24. ANS: C
                        PTS: 1
                                                                REF: Guide p. 96 (212-7 | 325-1 | 325-2)
                                            DIF: Level I
25. ANS: B
                        PTS: 1
                                            DIF:
                                                  Level I
                                                                REF: Guide p. 102 (213-3)
26. ANS: B
                        PTS: 1
                                            DIF:
                                                  Level II
                                                                REF: Curr. Guide p. 96
    OBJ: 214-10
27. ANS: D
                        PTS: 1
                                            DIF:
                                                   Level II
                                                                REF: 212-7 | 325-1 | 325-2
28. ANS: D
                        PTS: 1
                                                                REF: guide p. 104 (212-7 | 214-5 | 325-4)
                                            DIF:
                                                   Level II
29. ANS: B
                        PTS: 1
                                            DIF:
                                                  Level II
                                                                REF: p. 104 (212-7 | 214-5 | 325-4)
30. ANS: A
                        PTS: 1
                                                                REF: Guide p. 94 (213-3)
                                            DIF: Level II
31. ANS: B
                        PTS: 1
                                                                REF: Guide p. 96 (214-8)
                                            DIF:
                                                  Level II
32. ANS: C
                        PTS: 1
                                            DIF: Level III
                                                                REF: Guide p. 98 (212-7 | 325-1 | 325-2)
33. ANS: B
                        PTS: 1
                                            DIF: Level III
                                                                REF: Guide p. 98 (212-7 | 325-1 | 325-2)
34. ANS:
    Susan \vec{d} = \frac{1}{2} (8) \cdot (6)
```

= 24km

Bill
$$\vec{d} = \frac{1}{2}(3) \cdot (4) + (5) \cdot (4)$$

$$= 6 + 20$$

$$= 25km$$

Bill has travelled further.

PTS: 3 35. ANS:

No, you can not determine his average velocity. In order to determine his average velocity, you need Joe's displacement and time. Time is given, but displacement is not (distance travelled is).

PTS: 2

DIF: Level II

DIF: Level II

REF: 212-7 | 325-1 | 325-2

REF: p. 104 guide OBJ: 212-7, 214-5, 325-4

36. ANS:

i) During stage A:
$$\vec{v} = \frac{\vec{d}}{\vec{t}} = \frac{4m}{2s} = 2m/s \vec{v} = \frac{\vec{d}}{\vec{t}} = \frac{4m}{2s} = 2m/s$$

ii) During stage B:
$$\vec{v} = \frac{\vec{d}}{\vec{t}} = \frac{2m}{3s} = 0.67 \, m/s \, \vec{v} = \frac{\vec{d}}{\vec{t}} = \frac{2m}{3s} = 0.67 \, m/s$$

iii) Average velocity:
$$\vec{v} = \frac{\vec{d}}{\vec{t}} = \frac{6m}{5s} = 1.2 \, m/s \, \vec{v} = \frac{\vec{d}}{\vec{t}} = \frac{6m}{5s} = 1.2 \, m/s$$

PTS: 3

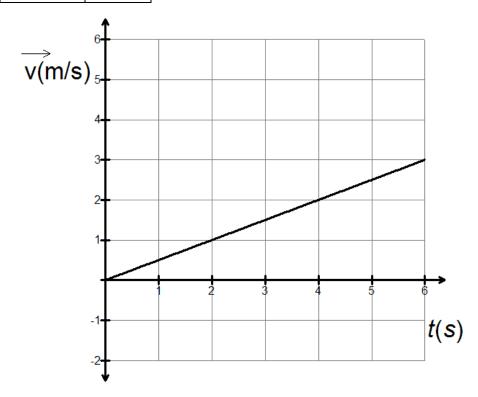
DIF: Level II

REF: 212-7 | 325-1 | 325-2

37. ANS:

Students can determine any 3 velocities and use these values to construct a graph. Velocities are:

v (m/s)	t (s)
0	0
0.5	1
1	2
1.5	3
2	4



	PTS:	3	DIF:	Level III	REF:	213-3		
38.	ANS:	A	PTS:	1	DIF:	1	OBJ:	213-9
39.	ANS:	В	PTS:	1	DIF:	1	OBJ:	114-8
40.	ANS:	A	PTS:	1	DIF:	1	OBJ:	114-8
41.	ANS:	C	PTS:	1	DIF:	1	OBJ:	212-8
42.	ANS:	В	PTS:	1	DIF:	1	OBJ:	319-1
43.	ANS:	C	PTS:	1	DIF:	2	OBJ:	319-1
44.	ANS:	D	PTS:	1	DIF:	2	OBJ:	319-1
45.	ANS:	D	PTS:	1	DIF:	2	OBJ:	114-8 321-1
46.	ANS:	D	PTS:	1	DIF:	2	OBJ:	321-1
47.	ANS:	В	PTS:	1	DIF:	2	OBJ:	321-1
48.	ANS:	В	PTS:	1	DIF:	2	OBJ:	321-1 319-1
49.	ANS:	C	PTS:	1	DIF:	2	OBJ:	319-2
50.	ANS:	A	PTS:	1	DIF:	3		
51.	ANS:	C	PTS:	1	DIF:	3	OBJ:	321-1 319-1
52.	ANS:							

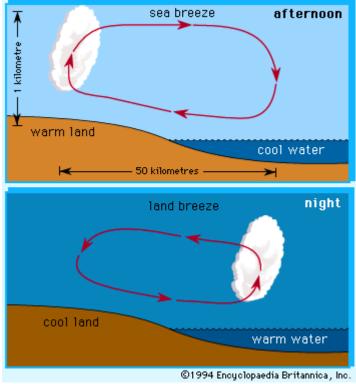
 $Ba(NO_3)_2(aq) + K_2SO_4(aq) \rightarrow 2 KNO_3(aq) + BaSO_4(s)$ Double Replacement Precipitation

53. ANS: Iron undergoes a formation reaction to form Iron Oxide. The red color would indicate the reaction has occurred. PTS: 3 DIF: 2 OBJ: 321-1 | 114-8 | 319-1 54. ANS: Compressed gas and Flammable and Combustible material. PTS: 2 DIF: 2 OBJ: 213-9 55. ANS: A) $CaCO_3$ B) KOH C) $CuSO_4$ D) $C_{12}H_{22}O_{11}$ PTS: 3 DIF: 3 OBJ: 212-8 | 114-8 | 319-1 | 319-2 56. ANS: A PTS: 1 DIF: Level II REF: Guide p. 62 (115-2 | 331-2 |) 57. ANS: D PTS: 1 DIF: Level I REF: Guide p. 62 (115-2 | 331-2) 58. ANS: C PTS: 1 DIF: Level I REF: Guide p. 54 (115-2 | 331-1) 59. ANS: B PTS: 1 REF: 214-3, 331-2 DIF: Level I 60. ANS: A PTS: 1 DIF: Level I REF: 115-2, 331-2 PTS: 1 REF: 212-1, p. 52 guide 61. ANS: A DIF: Level I 62. ANS: C PTS: 1 DIF: Level I REF: 212-1 63. ANS: B PTS: 1 DIF: Level I REF: 114-6, p. 48 guide REF: 114-6, p. 48 64. ANS: A PTS: 1 DIF: Level I 65. ANS: D PTS: 1 DIF: Level II REF: Guide p. 52 OBJ: (212-1) 66. ANS: D PTS: 1 DIF: Level II REF: Guide p. 56 (214-3) 67. ANS: B PTS: 1 DIF: Level I REF: 212-1, p. 52 guide PTS: 1 OBJ: 214-3 | 213-7 68. ANS: D DIF: Level 2 PTS: 1 REF: Guide p. 62 (115-2) 69. ANS: B DIF: Level II 70. ANS: D PTS: 1 REF: Guide p. 48 (114-6) DIF: Level III 71. ANS: B PTS: 1 DIF: Level III REF: Guide p. 64 (331-4) 72. ANS: a) Thermal b) Thermals result when the sun warms the earth. The earth then warms the air directly above it, which becomes less dense and quickly rises into the atmosphere. PTS: 3 REF: 115-2, p. 62 guide DIF: Level III 73. ANS:

OBJ: 321-1 | 319-1

PTS: 3

DIF: 2



In the afternoon a land breeze should form. This results when the land cools faster than the ocean water. The air above the warm water will rise, and air from the land will move out to sea to replace it. This will drive the ship further offshore.

PTS: 3 DIF: Level III REF: 115-2, p. 62 guide

74. ANS:

No. The east coast of Newfoundland typically experiences more fog days than the west coast. The warm Gulf Stream from the south hits the cold Labrador current from the north on the eastern part of Newfoundland. The mixing of the warm and cold air masses over these ocean currents results in fog.

PTS: 3 DIF: Level II REF: 115-2, 331-1, p. 54 guide