Detecting Darwin Activity 2: Piecing things together



http://www.darwinproject.ac.uk/learning/7-11/detecting-darwin

Suggested preparation

Presentation: Detecting Charles Darwin http://www.darwinproject.ac.uk/learning/7-11/detecting-darwin

Film: What was Darwin like and why is he important? Professor Jim Secord, Director of the Darwin Correspondence Project explains http://www.darwinproject.ac.uk/learning/7-11/detecting-darwin

How long will activity take?

• 35 mins

What do I need?

- Pens
- A timer or bell
- Presentation slides to go through
- answers at the end of the session
- A £10 note or replica (with Darwin on)

Per group:

- A set of resources from each phase of Darwin's life (numbered Stops 1-3)
- Question sheet
- Clipboard

Using clues from different stages of Darwin's life, try to assemble facts about who he was and what he did.

What do I do?

1. In small groups, examine the different resources from the three phases of Darwin's life and try to answer the questions.

2. When the bell rings, move on to the next set of sources. It doesn't matter which order you study them in.















Detecting Darwin Activity 2: Piecing things together question sheet



http://www.darwinproject.ac.uk/learning/7-11/detecting-darwin

Stop 1: Darwin as a young man and his great adventure

- 1. Which Cambridge College did Darwin attend?
- 2. Which creatures fascinated him as a student?
- 3. What was the name of the ship that Darwin sailed on? Where was his cabin?
- 4. What made him ill on the voyage and what did he enjoy?
- 5. Name 3 places he visited on the voyage.
- 6. Name something that he sent back home.

Stop 2: Family life and working from home

1. Name 2 reasons why Darwin considered not marrying and 2 reasons why he thought he should. What did he decide in the end?

2. How many children did he have and how many survived to adulthood? (check the dates)

3. Darwin carried out his scientific experiments at home. Name 2 places where he worked.

4. How did Darwin communicate with other scientists around the world?

5. Who was Joseph Hooker and what was his connection to Darwin?

Stop 3: Darwin's work and legacy

- 1. What is the name of Darwin's most famous book? When was it published?
- 2. What did Ernest Haeckel think of it?
- 3. How many scientific books or 'volumes' did he write?
- 4. When did he die? Where is he buried?
- 5. What is shown on the £10 note and why do you think Darwin is featured?



Darwin's diary: 13 February 1832

This has been the first day that the heat has annoyed us, & in proportion all have enjoyed the delicious coolness of the moonlight evenings: but when in bed, it is I am sure just like what one would feel if stewed in very warm melted butter. —

This morning a glorious fresh trade wind is driving us along; I call it glorious because others do; it is however bitter cruelty to call anything glorious that gives my stomach so much uneasiness. —

Oh a ship is a true pandemonium, & the cawkers who are hammering away above my head veritable devils. —

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Stop:

I



Stop: 1



LETTER 158 From Charles Darwin To Robert Waring Darwin February 1832 Transcribed extracts www.darwinproject.ac.uk/entry-158



Bahia or St Salvador, Brazil Feb. 1832

My dear Father

We sailed as you know on the 27th. of December & have been fortunate enough to have had from that time to the present a fair & moderate breeze: In the Bay of Biscay there was a long & continued swell & the misery I endured from sea-sickness is far far beyond what I ever guessed at...

From Teneriffe to St. Jago, the voyage was extremely pleasant.— I had a net astern the vessel, which caught great numbers of curious animals, & fully occupied my time in my cabin, & on deck the weather was so delightful, & clear, that the sky & water together made a picture.

I already have got to look at going to sea as a regular quiet place, like going back to home after staying away from it.— In short I find a ship a very comfortable house, with everything you want, & if it was not for sea-sickness the whole world would be sailors...

Believe me, my dear Father Your most affectionate son

Charles Darwin



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Images from the collections of Cambridge University Herbarium/Sedgwick Museum/Museum of Zoology



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Stop: 2



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Joseph Hooker

Joseph Hooker was a botanist, plant hunter and he became director of the Botanical Gardens at Kew. He went on many expeditions including to the Himalayas and even a trip to Antarctica – looking for plants! When Darwin returned from his round the world voyage he sent some of the plants that he had brought back to Joseph Hooker to help him indentify them. They became lifelong friends. Darwin exchanged 1,400 letters with Joseph Hooker. They helped each other carry out research by sending letters about experiments that they had done and new information that they had found. They shared personal stories and sadness too, as both men experienced the death of a young daughter.



LETTER 456 From John Stephens Henslow To Charles Darwin 16 December 1838 Transcribed extracts www.darwinproject.ac.uk/entry-456



Cambridge 16 Decr 1838

My dear Darwin,

...— All I can wish you is, that you may experience as great content in the marriage state as I have done myself—& all the advice, which I need not give you, is, to remember that as you take your wife for better for worse, be careful to value the better & care nothing for the worse— Of course it is impossible for a lover to suppose for an instant that there can be any worse in the matter, but it is the prudent part of a husband, to provide that there shall be none—...

But I am afraid you will think I am writing a sermon— Only take it in good part, & believe that I most heartily wish you all joy & prosperity— Is there a chance of your coming here this Xmas Mrs H is anxious to know & bids me ask you—

Yrs ever affectly J. S. Henslow

Letter 456 From John Stephens Henslow **To Charles Darwin** 16 December 1838 Pages 1 & 3 of original letter (reduced in size)

www.darwinproject.ac.uk/entry-456

DAR 254: 166 Cant Cambin 16 Der. 1030 My dear Darin. This day 15 4 ago I entered in that Mate which it ligaiers my pericadium to think that you are about to cuter - I have been remip in not tilling you to loomer, but iece of more kinan advice I that to him at - that we do well I am have your will with this in daily that any preatest cartily me un mint ful of your happing he taken from us in a moment from having added one more specimen This reflection armaying us I my careles why to the many yan ~ happing from being as have writingfor he fre - all I can earthy happines can be - I wish your is that your may experience n experience to affine you as peak content in the marriage ases happiness, & removes was care - But I am Mintat trale as I have done suggetty - dale think I am writing a kemm - very take it in ford fact , h believe that I most hearting wish go all joy - prosperity - to there a chance I your coming her this grow Mor it is anxions & have a bit, me ash gen-Green affers

Darwin Correspondence Project/Cambridge University Library (CC BY-ND 2.0)

Y. J. Hendon

LETTER 1012 From Charles Darwin To Joseph Hooker [26 October 1846] Transcribed extracts www.darwinproject.ac.uk/entry-1012



Down Farnborough Kent Monday Morning

My dear Hooker

Your drawing is quite beautiful; I cannot thank you enough, & I feel, as I before said guilty—your good nature is as wonderful as mesmerism.— I have been reading heaps of papers on Cirripedia, & your drawing is clearer than almost any of them.

The more I read, the more singular does our little fellow appear, & as you say, looking at its natural size, a microscope is a most wonderful instrument. How different would the drawing have been, if I had employed an artist! not to mention the invaluable assistance of having my loose observations confirmed, & the several points observed only by you.— I shall of course state this in the beginning of my paper, & when I have not seen the thing, give it on your authority...

Ever yours My dear Hooker, C. Darwin

Letter 1012 From Charles Darwin **To Joseph Hooker** [26 October 1846] Pages 1 & 4 of original letter (reduced in size)

www.darwinproject.ac.uk/entry-1012 Down Fan bring Kent hinday korning By dear Howher Jour graving - quite beautiful ; I cannot thank you unif , & I feel, a I before said quilty - guer good ature in al Wardenful a

mesherisme . - I here been reading heres of pepers on Cinipedia, & your Franing is dearen in the president state, them about any of them. The more I wand, The Two fingertions : I send more singulare for our little fellow appearent, a is you say looking it it tratectal rigg a microcale a a state instructant . How different words in sheper agens in tig 21. and the Praving here been if I had employed an artist I will to martin To invaluable opintance of my hering my love bertations informed + The second points thered of f gran - I shele of comme state the is The beginning of

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Marry, Not Marry ?

Transcription

This is the Question

Marry

Children—(if it Please God) — Constant companion, (& friend in old age) who will feel interested in one, — object to be beloved & played with. — better than a dog anyhow. — Home, & someone to take care of house — Charms of music & female chit-chat. — These things good for one's health. — but terrible loss of time. —

My God, it is intolerable to think of spending ones whole life, like a neuter bee, working, working, & nothing after all. — No, no won't do. — Imagine living all one's day solitarily in smoky dirty London House. — Only picture to yourself a nice soft wife on a sofa With good fire, & books & music perhaps — Compare this vision with the dingy reality of Grt. Marlbro' St.

Marry—Marry Q.E.D.

Not Marry

Freedom to go where one liked — choice of Society & little of it. — Conversation of clever men at clubs —

Not forced to visit relatives, & to bend in every trifle. — to have the expense & anxiety of children — perhaps quarelling —

Loss of time. — cannot read in the Evenings — fatness & idleness —

Anxiety & responsibility — less money for books &c — if many children forced to gain one's bread. — (But then it is very bad for ones health to work too much)

Perhaps my wife wont like London; then the sentence is banishment & degradation into indolent, idle fool —

Image of original

hot many This is the Question) many no children, (no second life) no one to care for Children - (Thease god) - . Constant Compania me in Rd age . - what is the use of working is withink sporting from near + dear friends. who are sear a dear freends to this. yapt to take care of house - Classon of Meaning relative Readom to go where one liked. fender that het - Ilese things for choice & Iniet & libble 1 its - Emerste me health . - tow to kist securio I deren men at clubs - hat force to celeting bet terrible lop of time . visit relation , + then in ever trifle to my , it is witherette to think of I have the expense & and if I challen -Spendry our white life, like a renter Jerhon varelling - If of time - cannt bee, wohing ; waking a writing often tead in The herings - father & where & all . - hu, he won't do . - Inequire him anxiety responsibility - lif money for books re all over reg. solitary in moth sixt for In House - Only pratine t guesself a trice Perlops my wife won't like fordom, to After when a sofa with good fice, + holes & music perhaps - Compare This the sentence on barrishment & degree the vision with the sing vality of St healthing its uddent, idle for mans - man . mary 2.2.D



THE ORIGIN OF SPECIES

ON

Jean Morte

BY MEANS OF NATURAL SELECTION,

-

OR THE PRESERVATION OF FAVOURED RACES IN THE STRUGGLE FOR LIFE.

BY CHARLES DARWIN, M.A.,

FELLOW OF THE ROYAL, GEOLOGICAL, LINNÆAN, ETC., SOCIETIES; AUTHOR OF 'JOURNAL OF RESEARCHES DURING H. M. S. BEAGLE'S VOYAGE ROUND THE WORLD.'

LONDON: JOHN MURRAY, ALBEMARLE STREET. 1859.

The right of Translation is reserved

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LETTER 4555 From Ernst Haeckel To Charles Darwin 9 July, 1864 Translated and Transcribed extracts http://www.darwinproject.ac.uk/entry-4555



Jena (Saxony & Weimar) 9 July 1864

Most honoured Sir

...Of all the books I have ever read, not a single one has come even close to making such an overpowering and lasting impression on me, as your theory of the evolution of species. In your book I found all at once the harmonious solution of all the fundamental problems that I had continually tried to solve ever since I had come to know nature as she really is. Since then your theory—I can say so without exaggerating—has occupied my mind every day most pressingly, and whatever I investigate in the life of humans, animals or plants, your theory of descent always offers me a harmonious solution to all problems, however knotty...

Hoping, dear Sir, that your health will improve and that it will allow you for many years yet to continue the battle for truth and against human prejudice, I remain with the most sincere esteem,

Yours truly devoted Ernst Haeckel

Letter 4555 From Ernst Haeckel **To Charles Darwin** 9 July, 1864 Pages 1 & 8 of original letter, in German (reduced in size)

http://www.darwinproject.ac.uk/entry-4555

Jena 9. (Sachsen . Weiman Glo" hot geehater Herr 24 Von einer langeren goologischen Re-Mittelmeen gurickgekehrt, fandisk orhow non mehnenen Monaten abge wan, den win eine ausres as deutlis beneitet hat. Servelbe giebt wir Gelogenheit, Ahnen, theuren Hern, genoonlich die vorzigliche Venchnung anveror Scut liche Hashashtung yes begee die ich prin den Entderken des " Inngglo life " und der , Natural selection " hege. allon Buichern, die ich jemale geloren habe, hat bein singiger outh nur annahered since ro mastigen und nachtabligen Tiedruck in min hervange braikt, als thre Theorie uber dis Enthehung der Arten. An dierem Buche fandlegen, der vergleichende Lingwist ich with craam Male die harawaische Loong atter der fundamentalen Probleme, nach denen Coklaring ich bestandig gestrebt hatte, seit. dem ich die Natur in ihrem wahren Weren Baue gelerat hatte. Seitden hat wich Ikae Thearis - ich d caf dier ohne Milestreibung ragen - Taglich auf dar angelegentlichte berthaptigt, and we ish making thegas in class Leben den Mausikan, Thiere und Iflangen

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Extracts (highlighted red opposite) from The Times Obituary for Charles Robert Darwin The Times, Friday, Apr 21, 1882

... The announcement of the death of Charles Darwin flashes over the face of the earth whose secrets he has done more than any other to reveal...

Fifteen volumes lie before us and nearly as many memoirs large and small, the product of 45 years' work—a product which, in quantity, would do credit to the most robust constitution. But when we consider Mr. Darwin's always feeble health and his deliberately slow method of work, never hasting but rarely resting, the result seems marvellous...

The Beagle sailed from England December 27, 1831, and returned October 28, 1836, having thus been absent nearly five years. In more ways than one these five years were the most eventful of Mr. Darwin's life. During these five years the Beagle circumnavigated the world, and it's not too much to say that singlehanded, Mr. Darwin during the voyage did more for natural history in all its varied departments than any expedition has done since; much more when we consider the momentous results that followed...

His personal influence on young scientific men can with difficulty be calculated; his simple readiness to listen and suggest and help has won the gratitude of many an aspiring observer.

Since he took up his residence in at Down, Mr. Darwin's life has been marked mainly by the successive publication of those works which have revolutionized modern thought. In 1859 was published what may be regarded as the most momentous of all his works, "The Origin of Species by means of Natural Selection."

No one, we are sure, would be more surprised than the author himself at the results which followed. But all this has long passed. The work, slowly at first, but with increasing rapidity made its way to general acceptance,..

It goes without saying that the honours and medals were showered upon Mr. Darwin by learned societies all the world over... CHARLES ROBERT DARWIN

Exactly a year to a day has separated the deathst two of the most powerful men of this century are lor the of any century ; and those who are lor the of any century ; and those who are lor the work of the two men, totally diffent at way the patterns in which they coveride the drift of the work of the two men, totally diffend the work has pheres in which they coveride the drift of the work of the two men, totally diffedited by the two ment of the second second of the work of the two ment of the second of the work of the two ment of the second of the work of the two ment of the second of the second second second second second second second the second second

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the publication of this work. We need not repeat the anathemas that were hurled at the head of the simple-minded observer, and the productions doctrines were accepted. No ono, we are sure would be more surprised than the author humself a the results which followed. But all this has ion

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developments in different directions of the great principles applied in the "Origin of Species". Between 1844 and 1854 he published to the public section of the published in strongs, while you hother souther work, published in 1950, was that on the "Fertilization of Orchids." "In a strong the souther souther work, published in 1950, was that on the "Fertilization of Orchids." "In a strong "General Control of the souther souther souther the souther souther souther souther souther of Forwars" (1876). "Or souther of Forwars" (1876). The souther wave souther souther souther souther souther souther souther souther which a quarter of a contury ago work boyond the south souther souther souther souther souther souther south souther souther souther souther souther souther south souther souther souther souther souther souther south souther souther souther souther souther south souther souther souther souther souther south souther souther

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As a sort of side issue of the "Descent of Mon," and as throwing light upon the doctrince leveloped therein, with much more of indepenlent interest and suggestimeness, "The Expreslent of the Emotions in Mon and Animals" was unained of Mr. Dawnin's works, while at the same unained of Mr. Dawnin's works, while at the same unained of Mr. Dawnin's works, while at the same unained of Mr. Dawnin's works, while at the same unained of Mr. Dawnin's works, while at the same and the second privated observation and reason of the is reised. The same of the same of t is one, moreover, which shows an the satch for nationate that were likely to have any baaring or he varied lines of this researches.

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Mr. Darwin's older brother, the faithful friend of Mrs. Carlyle. died about a year ago, leaving his younger brother his principal heir : the latter, how

ances. It goes without saying that honours an ecdals were showered upon Mr. Darwin by learne cicities all the world over I from Germany, when a champles led by Hackel, have out-Darwine

Darwin, he received a Knighthood of the Prussian Order of Merit.

From respect to the memory of Mr. Davais, the Lamasa orisky selective adjourned after immediate immediate intense only. Sit 2-bin Laboloc, the president, addressing the anomary, and they would, and book, allhows heat of the anomary, and they would, and book, allhows heat of the anomary, and they would and book, allhows heat or anomary and their osciety had experiment in the dash of r. Davrin. Only addresses of the anomary had to prise anomary and their osciety had experiment in the sector and the sector of the sector of the sector of the origin and the sector of the kinet and the sector of the sector of the sector of the kinet and these of the sector of the sector of the kinet and these of the sector of the sector of the kinet and these of the sector of the sector of the kinet and these of the sector of the sector of the kinet and these of the sector of the sector of the kinet and these of the sector of the sector of the kinet and these of the sector of the sector of the kinet and the sector of the sector of the sector of the kinet and these of the sector of the

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