

Building the Case for Evolution

Types of Evidence collected by Darwin/Wallace

- Collected specimens of species that had variation
- Fossils
- Anatomical homologies in the fossils/specimens - comparative anatomy
- Species differ depending on geographical location
- Comparing embryos - developmental homologies

How has knowledge & technology changed since the mid 1800s?

- | <u>THEN</u> | <u>NOW</u> |
|---------------------------------|--|
| - couldn't travel far | - determine absolute date of fossils/rocks |
| - needed money to study science | - world is small |
| - info was slow to spread | - improved technology |
| | - animal rights |
| | - anyone has access to info |

So what new evidence have scientists collected since then?

Your task, in groups of three:

1. Research what evidence has been discovered since Darwin/Wallace's time (1860's)
2. Make a POSTER explaining this evidence (minimum three new pieces of evidence)

YOU HAVE 2 CLASSES TO WORK ON THIS (third day present)

Things to keep in mind when doing your research and poster:

RESEARCH

- Reputable website: good grammar, good layout, author has expertise, no ads, recent
- Start w/ wikipedia to get ideas
- Want your evidence backed up by a

POSTER

- organized
- short pieces of info
- colour & pictures
- legible
- easy to follow

RESEARCH & BIBLIOGRAPHY

- I can demonstrate an awareness of assumptions and bias in my own and others' work
- I can use scientific knowledge to evaluate claims made by others
- I can assess the accuracy of information, and the methods used to solve problems

Above Standard	At Standard	Approaching Standard
<ul style="list-style-type: none"> • Extensive use of reliable information sources 	<ul style="list-style-type: none"> • Use of multiple reliable information sources 	<ul style="list-style-type: none"> • Inadequate use of reliable information sources

POSTER

- I can use scientific language to communicate ideas for a specific purpose
- I can explain a variety of pieces of evidence in support of the theory of evolution

Above Standard	At Standard	Approaching Standard
<ul style="list-style-type: none"> • Extensive use of scientific language results in an advanced explanation of numerous pieces of evidence 	<ul style="list-style-type: none"> • Use of scientific language allows for a clear explanation of numerous pieces of evidence 	<ul style="list-style-type: none"> • Limited use of scientific language results in an inadequate explanation of evidence

Group Work

- I can perform scientific investigations that collect reliable data in groups

Above Standard	At Standard	Approaching Standard
<ul style="list-style-type: none"> • Meaningful contribution promoted the collection of extensive reliable data 	<ul style="list-style-type: none"> • Effective contribution allowed the group to collect reliable data 	<ul style="list-style-type: none"> • Contribution limited the ability of the group to collect reliable data
