

**Science – Year 5/6A Autumn 1**

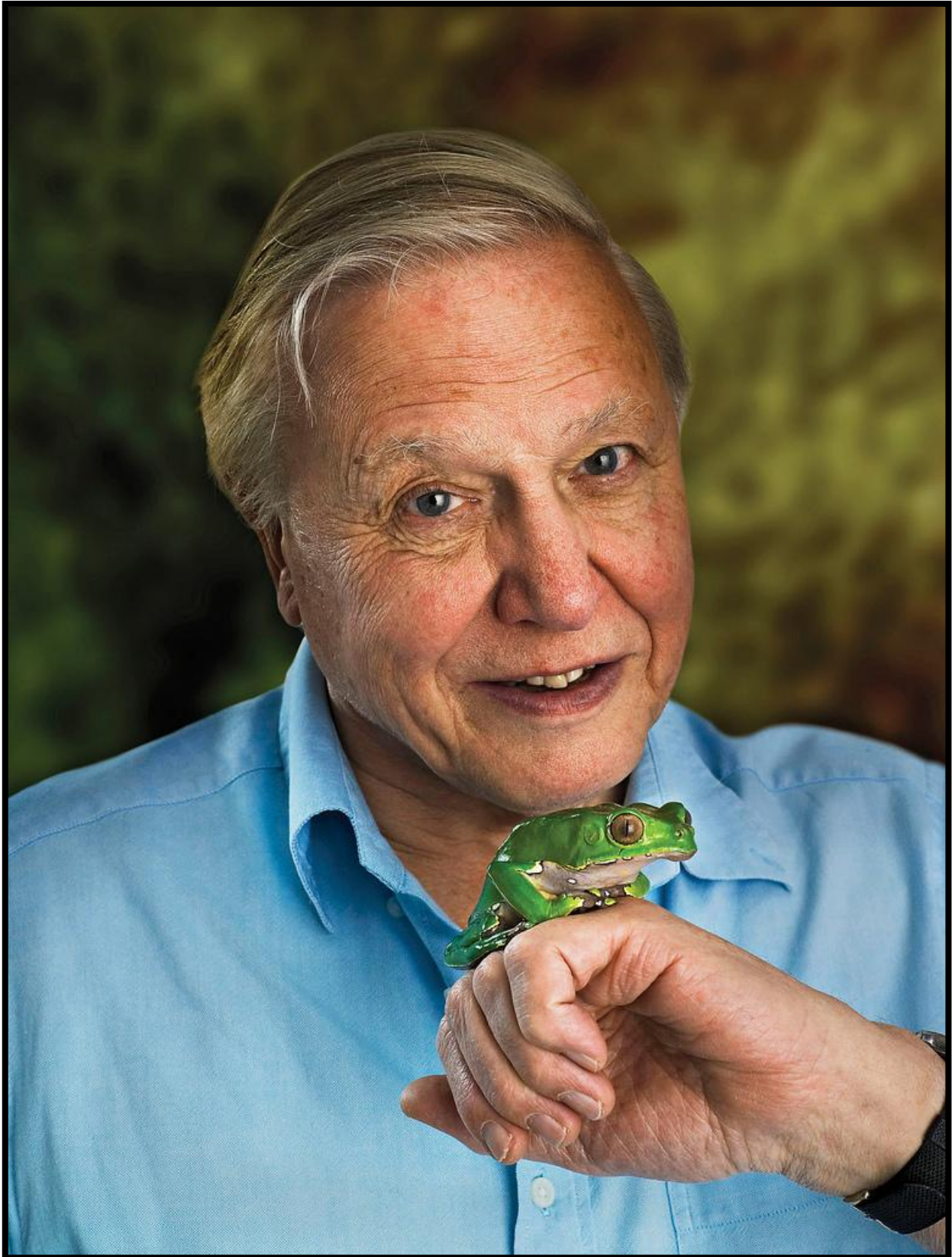
Living Things and Their Habitats

# **Illustrating Life Cycles**

Session 6

**Resource Pack**

**David Attenborough**



**Jane Goodall**





Steve Backshall



Steve Irwin



George McGavin



## **Naturalists and animal behaviourists**

- Charles Darwin
- Chris Packham
- David Attenborough
- Alfred Russel Wallace
- Steve Backshall
- Steve Irwin
- Jane Goodall
- George McGavin

## Completion of observations and investigations

### Y5

- Make your final observations (including notes, photographs and drawings) of tadpole development (you or your teacher can now return the tadpoles/froglets to a suitable pond)
- Complete your final observations (including notes, photographs and drawings) of the chicks and insects
- Now complete your propagated plant investigation:
  - Take growth measurements and complete your table – use the data that you have collected to create a series line graph that includes all three sets of growth data
  - Take notes and photographs then draw a labelled diagram of each plant
  - Compare your data and diagrams and decide which was the most successful propagation. Which other bit of a plant could you try and take a cutting from? Do you think it would grow?
  - Examine the runners and potatoes, completing observations and noting what has happened

### Y6

- Make your final observations (including notes, photographs and drawings) of tadpole development (you or your teacher can now return the tadpoles/froglets to a suitable pond)
- Complete your final observations (including notes, photographs and drawings) of the chicks and insects
- Now complete your propagated plant investigation:
  - Complete measurements and record your data in table and graph form (you will need to decide on the best type of graph that allows you to show change over time as well as comparison between plants)
  - Take notes and photographs then draw a labelled diagram of each plant. Include annotations to describe in greater detail what has happened
  - Compare your data and diagrams and draw conclusions about the most successful propagation. Which other bit of a plant could you try and take a cutting from? Do you think it would grow?
  - Examine the runners and potatoes, completing observations and noting what has happened



## Biographical guidelines

**Y5**

***Choose 3 or 4 well-known naturalists/animal behaviourists and try to include the following in your biographical information:***

- **Name**
- **Area of specialism/type of scientist**
- **Qualifications/experience**
- **What they are known for in particular**

**Y6**

***Choose 3 or 4 well known naturalists/animal behaviourists and try to include the following in your biographical information:***

- **Name**
- **Area of specialism/type of scientist**
- **Qualifications/experience**
- **What they are known for in particular**

**The significance and impact of their work (e.g. raising awareness, furthering scientific understanding, educating through public programming, conservation etc)**



## **‘Excellence in Scientific Illustration’ award guidelines**

Please select one or two illustrated books for nomination, that you feel meet the *Excellence in Scientific Illustration* award criteria

### **Criteria:**

1. *Excellent use of watercolour pencil techniques (texture, shade, tone and colour)*
2. *Exceptional detail in terms of life cycles and reproduction*
3. *Informative and effective labels and annotations*
4. *An eye-catching overall impact*

Please select one or two illustrated books for nomination, that you feel meet the *Excellence in Scientific Illustration* award criteria

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## **Suggested websites for significant naturalists research**

*Jane Goodall:*

<http://www.janegoodall.org.uk/jane-goodall>

*Steve Backshall:*

<http://www.stevebackshall.com/>

*Chris Packham:*

<http://www.chrispackham.co.uk/>

*Steve Irwin:*

[http://www.crocodilehunter.com.au/crocodile\\_hunter/about\\_steve\\_terri/](http://www.crocodilehunter.com.au/crocodile_hunter/about_steve_terri/)

*George McGavin:*

<http://speakingofscience.juliegould.net/science-communication/speaking-to-dr-george-mcgavin/>