

# Using the DNAi Teacher Guide

The *DNAi* Teacher Guide is broken up into sections for ease of printing and download. There are introductory materials, teacher pages, student worksheets, templates, and correlations to specific curriculum and content standards.

### **Teacher Pages**

The teacher pages carry information and hints for running the activity.

### **Description of Activity**

A general overview of what students will use and be asked to do during the activity.

#### **Learning Outcomes**

This section outlines aims and outcomes for the activity. *e.g.* Students will:

- 1. do some stuff
- 2. learn a few things
- 3. LIKE it!

### **Implementing the Lesson**

#### **Before class:**

This section outlines what should be done prior to class. The tasks may include making photocopies, preparing sets of student materials, laminating reusable pieces, and becoming familiar with the online resources.

#### **During class:**

Instructional strategies are suggested in this section. These might include suggestions for grouping students, questions to assess prior knowledge, or dialog with which to set a learning context.

#### **Misconceptions**

Where appropriate, possible misconceptions are mentioned here. These are suggested to make it easier to probe the class to determine if misconceptions exist. It will also facilitate overcoming the misconceptions.

#### **Assumptions of Prior Knowledge**

This section addresses what students need to know in order to successfully move through the activity. Prior knowledge could stem from science instruction in earlier grades or from work in the current course.

#### **Further Explorations**

Two or three additional activities are suggested here. These activities, only briefly described, recognize student diversity by utilizing different teaching and learning strategies than the primary activity.





Graphic indicates relevant sections on the *DNA Interactive* web site (www.dnai.org).

### Glossary

This section includes a listing of key terms from the module.

#### Resources

Specific web sites, videos, DVDs, books, and articles that may be interesting to teachers or students are listed under this heading.

### **Activity Pages Include:**

This section lists the other pages provided for the activity. These include student worksheets, answer sheets, templates for materials required in order to complete an activity, illustrations, etc.

#### **Correlation to National Science Education Standards**

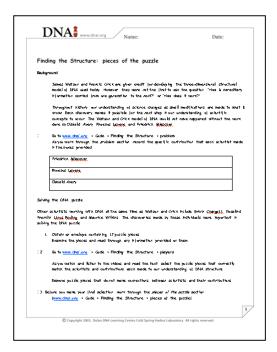
These pages correlate the activity to the U.S. National Science Education Standards. Correlations to curricula in countries such as the U.K. and Australia are currently being collated.



#### **Student Worksheets**

The student worksheets have been developed for copying and distribution to individual students or cooperative working groups.

There is a name and date section at the top of each page, and the sheets contain both instructions and questions.









## **Answer Sheets**

These pages contain the questions asked on the student worksheets, together with their answers.



# **Templates**

Some templates are available for printing in either color or black and white. These template pages can be laminated for reuse.