

## DNA, Chromosomes, and Genes Cut and Glue

Match the definition to its definition.

chromosome

The tiny structures inside a cell or chromosome is passed from one parent to the other.

chromosome

A structure inside the nucleus in made up of a tightly coiled DNA molecule.

DNA

A part of DNA that is responsible for storage, function or expression.

chromosome

A single DNA molecule provides instructions for all the different processes involved in life and expression.

gene

A short section of the DNA molecule with instructions for a specific trait. They come in pairs.

allele

This describes the pair which is more present than another in the pair of genes.

allele

A smaller molecule of DNA that contains all the genetic material.

## DNA, Chromosomes, and Genes Match Up

Directions Cut out the words below (image and description) and stick them onto the flow diagram in the correct place.



One protein chromosome  
instructions allow for  
to build an enzyme.  
A short section of DNA  
is called a gene.

Match the term to  
definition.

Instructions are  
long, tightly coiled  
molecules of DNA.

Part of the cell in  
which living processes  
occur.

DNA and genes

B&W and Color

# 5th Grade Dna Lesson

**RS Peters**

## 5th Grade Dna Lesson:

**PCR Strategies** Michael A. Innis, David H. Gelfand, John J. Sninsky, 1995-07-06 PCR Strategies expands and updates the landmark volume PCR Protocols. It is a companion laboratory manual that provides a completely new set of up to date strategies and protocols for getting the most from PCR. The editors have organized the book into four sections focusing on principles, analyses, research applications and alternative strategies for a wide variety of basic and clinical needs. If you own PCR Protocols you will want PCR Strategies. If you don't own PCR Protocols you will want to buy both. Concepts explained, Methods detailed, Trouble shooting emphasized, Novel applications highlighted, Key concepts for PCR Analysis of PCR products, Research applications, Alternative amplification strategies.

**Resources in Education**, 1994 [Take Action!](#) Lori Langer de Ramirez, 2009 Take Action Lesson Plans for a Multicultural Classroom is for all teachers striving to meet the needs of students in today's diverse K-12 classrooms. Take Action offers 27 practical, step-by-step multicultural lesson plans organized around seven microcultures: culture and identity, race and ethnicity, abilities and disabilities, religion, socioeconomics, and class, language and gender and sexuality. Each chapter includes three lesson plans at three different grade levels: elementary, middle and secondary. Each lesson plan is presented with an accessible and predictable format, outlines the content areas addressed, provides a recipe-style list of materials for all the activities in the lesson plan and action projects, and so much more. Connections to national professional standards and benchmarks for K-12 education as outlined by the Mid-continent Research for Education and Learning are also included in every lesson plan.

**FEATURES**

- Lesson Plan Video:** The Take Action DVD located in the front of the book provides readers with 9 video clips of Standards Matrix A.
- Lesson Preparation for the Teacher:** This section provides activities every teacher should do prior to working on any of the lessons that follow. This section includes One Teacher's Reflection. These are stories written by teachers who reflect on specific incidents related to the chapter topic. These stories come from their own classroom and are meant to stimulate thinking about the connection between theory and practice.
- Teacher Action Project:** These teacher action projects are meant to inspire deeper, more global connections between the teacher and the chapter topic. Teachers might be prompted to visit other classrooms, other schools or other communities. The projects are meant to expose teachers to the chapter topics in a more visceral way than if the preparation had only been through reading Suggested Readings and Resources.
- This section provides the teacher with further reading materials, websites and references extending the action projects by providing teachers with more tools for developing further lessons and projects for their own students.**
- FULL LESSON PLANS:** Three complete lesson plans in each chapter provide novice and experienced teachers with step-by-step lesson plans. Presenting a predictable and accessible format, each lesson plan includes the following information: Grade levels, Lessons are divided among three categories: Elementary (K-5), Middle School (6-8) and High School (9-12), lessons with one example of each level provided for each topic.
- Chapter:** Though teachers should feel comfortable adapting the lessons to work in their own school context, Content

areas addressed A list of subject or content areas that are touched upon in the lesson and or action project Topic A brief description of the main topic or topics to be addressed in the lesson Rationale for Using This Lesson This section seeks to answer the why bother question when deciding what curriculum to include in one s class It provides a sense of the importance of the topic of the lesson Background Information Provides the teacher and the students with some necessary information about the main topic s in the lesson Goals Aims Gives the teacher a sense for what s he can expect students to be able to accomplish or do during the lesson and or as a result of the action project Connections to Standards Links to national standards for all the content areas that are included in the lesson The national standards used in the book were culled from national professional organizations specific to each subject area as well as the excellent compendium of content standards and benchmarks for K 12 education located on the McRel Mid continent Research for Education and Learning website [www.mcrel.org](http://www.mcrel.org) Materials A recipe style list of the materials needed to do all of the activities in the lesson and action project A step by step Activity Includes description of the tasks or activities in the lesson Action project A task that helps translate the topic of the lesson into a project that helps benefit the class the school or the community Reflection Questions for the teacher to reflect on after having presented the lesson to students These questions may serve as prompts for discussion with colleagues or as topics for reflective journal entries Resource Page Photocopyable handout pages that are connected to the lesson

Cancer Chemotherapy and Biotherapy Bruce A. Chabner,Dan L. Longo,2011-12-07 Updated to include the newest drugs and those currently in development this Fifth Edition is a comprehensive reference on the preclinical and clinical pharmacology of anticancer agents Organized by drug class the book provides the latest information on all drugs and biological agents their mechanisms of action interactions with other agents toxicities side effects and mechanisms of resistance The authors explain the rationale for use of drugs in specific schedules and combinations and offer guidelines for dose adjustment in particular situations This edition s introduction includes timely information on general strategies for drug usage the science of drug discovery and development economic and regulatory aspects of cancer drug development and principles of pharmacokinetics Eight new chapters have been added and more than twenty have been significantly revised A companion website includes the fully searchable text and an image bank  Dennis W. K. Chan,William Y. Wu,2002

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