



# Chandler Unified School District

SCI100A Investigative Science  
SY 2023-24



## Course Overview

### Course Description

This inquiry-based course investigates physical sciences, Earth, and space concepts to develop a student's analytical skills and problem-solving techniques. Students will actively participate in laboratory assignments and learn foundational knowledge to apply in subsequent high school science classes.

### AP/IB/Dual Enrollment

No

### Prerequisite/Fee(s)

None

### Course Materials

Suggested:

2 composition notebooks (no spiral notebooks please)

1 2-pocket folder any color

pencils

tissues are always appreciated

### Adopted Resource(s)

Teacher Provided.

*\*An asterisk will indicate a resource containing sexually explicit materials per legislative definitions. CUSD has determined that all resources listed above are of exceptional educational value.*

## Site and Faculty Information

### School name and address:

Andersen Junior High School, 1255 N Dobson Rd, Chandler, AZ 85224

### Building principal:

Antasio Holley

holley.antasio@cusd80.com

### Teacher:

Kristin Miller AS, BA, MEd

miller.kristin@cusd80.com

**Office hours:** Wednesdays 3:40-4:15

## Course Access

This course is taught in-person at Andersen Junior High School. Students will have access to the curriculum and instruction in the classroom. Google Classroom is the primary location for students to access material when absent from classes taught in person.

## Help

### Academic Support

- Contact the teacher to schedule an appointment during office hours
- [Ed Tech](#) support for students, parents/guardians, and community link ([cusd80.com/Page/45109](https://cusd80.com/Page/45109))

### Mental Health Support

- CUSD mental health support [cusd80.com/Domain/10528](https://cusd80.com/Domain/10528) or 480-573-8808 (talk or text)

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- Suicide & Crisis Lifeline: 9-8-8 hotline
  - 24-hour Crisis Line Talk: 602-222-9444, Text: 741-741

## Student Conduct, Success, and Responsibilities

### Student Handbook

Students must follow the policies and procedures established in the Student Handbook. Copies of the handbook can be found at [cusd80.com/handbooks](http://cusd80.com/handbooks). Printed copies will be provided upon request.

### Student Responsibilities

Enter through the Enter door and Exit through the Exit door

Cell Phones and Ear buds must be KEPT in backpacks during the entire class period

NO food allowed in class, this includes gum

Stay seated till the class is dismissed

Quizzes and tests can be retaken, but only after meeting the teacher for help

Follow all school procedures and rules to avoid disciplinary action.

### Late work

All assignments are posted in google classroom daily and should be checked when they are absent

Per district policy students have one day for each day absent to make up missed work

Work is more than one full week late will not be accepted for grading

## Assessments and Assignments

Students will complete assessments during each unit of study to assess their understanding. Students will complete the CUSD Common Final at the end of the first and second semesters. The Common Final will count for 20% of the student's final semester grade in grades 9-12 and 10% in grades 7-8 (some exceptions may apply at the Junior High level). Common finals will be in ELA, Math, Science, Social Science, and World Language.

Final exams will be given during the CUSD Jr High/High School Early Dismissal days in December and May, as identified on the [District Calendar](#).

If students are requested to participate in a survey, the survey questions will be provided to parents/guardians seven days before student contact.

## Grading

### Grade Percentage

A	B	C	D	F
90% - 100%	80% - 89%	70% - 79%	60% - 69%	<60%

### Quarter grades

Students grades consist of classwork, labs, projects, formative assessments, Quizzes and tests.

Classwork, projects and lab work make up 40% of the grade

Formative assessments, quizzes and test 60% of the grade

### Semester grades

Semester grades are calculated using 45/45/10: Each quarter accounts for 45% of the semester grade and the final exam accounts for the remaining 10%.

## Units of study

### Units for SCI100A Investigative Science

Model and explain how a change in thermal energy can influence a change of state

Develop and use a model to demonstrate that atoms and molecules can be combined or rearranged in chemical reactions to form new compounds with the total number of each type of atom conserved

Obtain and evaluate information regarding how scientists identify substances based on unique physical and chemical properties

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or ions to give rise to a chemical compound

Obtain, evaluate and communicate information to provide evidence that all living things are made up of cells, cells come from existing cells, and cells are the basic structural and functional unit of living things

Construct an explanation to demonstrate the relationship between major cell structures and cell functions (plants and animals)

Construct and explain how the structure of DNA determines the structure of proteins which carry out the essential function of life through the system of cells

Construct an explanation for how some plant cells convert light energy into food energy

Develop and use a model to explain how cells, tissues and organ systems maintain life

Evaluate how survival needs of animals and plants are met by systems working together. Construct an explanation for how organisms maintain internal stability and evaluate effect of external factors on organisms internal stability

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## SCI100A Investigative Science

### SY 2023-24



**Site:** Andersen Junior High School  
**Building Principal:** Antasio Holley, holley.antasio@cusd80.com  
**Teacher:** Kristin Miller, miller.kristin@cusd80.com

## Parent/Guardian

### Acknowledgment

Parents/Guardians should indicate if they “Acknowledge” or have a “Potential Conflict” with their student’s participation in the following units by checking the appropriate box for each unit of study listed. Students cannot opt out of a standards-based unit. Marking “Potential Conflict” will prompt the teacher to make contact regarding assignment alternatives.

Unit of study	Acknowledge	Potential Conflict
Model and explain how a change in thermal energy can influence a change of state	<input type="checkbox"/>	<input type="checkbox"/>
Develop and use a model to demonstrate that atoms and molecules can be combined or rearranged in chemical reactions to form new compounds with the total number of each type of atom conserved	<input type="checkbox"/>	<input type="checkbox"/>
Obtain and evaluate information regarding how scientists identify substances based on unique physical and chemical properties or ions to give rise to a chemical compound	<input type="checkbox"/>	<input type="checkbox"/>
Obtain, evaluate and communicate information to provide evidence that all living things are made up of cells, cells come from existing cells, and cells are the basic structural and functional unit of living things	<input type="checkbox"/>	<input type="checkbox"/>
Construct an explanation to demonstrate the relationship between major cell structures and cell functions (plants and animals)	<input type="checkbox"/>	<input type="checkbox"/>
Construct and explain how the structure of DNA determines the structure of proteins which carry out the essential function of life through the system of cells	<input type="checkbox"/>	<input type="checkbox"/>
Construct an explanation for how some plant cells convert light energy into food energy	<input type="checkbox"/>	<input type="checkbox"/>
Develop and use a model to explain how cells, tissues and organ systems maintain life	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate how survival needs of animals and plants are met by systems working together. Construct an explanation for how organisms maintain internal stability and evaluate effect of external factors on organisms internal stability	<input type="checkbox"/>	<input type="checkbox"/>

*\*An asterisk will indicate a unit of study containing sexually explicit materials per legislative definitions.*

**By signing and returning this form,** the parent/guardian acknowledges they have reviewed the resources and units of the study included in the syllabus.

- As the parent/guardian, I understand that I may contact the teacher if I have questions about the resources, content, or units of study.
- As the parent/guardian, I understand I can check my student’s grades in Infinite Campus anytime during the school year.

Student name (printed)

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Student signature

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Parent/Guardian name (printed)

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Parent Signature

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Date

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***Please return this page to your student's teacher.***