



## Science Practices

The redesign of AP science courses and exams focuses on seven overarching practices that capture important aspects of the work of scientists. Science practices describe the knowledge and skills that students should learn and demonstrate to reach a goal or complete a learning activity.

### Science Practice 1

The student can use representations and models to communicate scientific phenomena and solve scientific problems.

### Science Practice 2

The student can use mathematics appropriately.

### Science Practice 3

The student can engage in scientific questioning to extend thinking or to guide investigations within the context of the AP course.

### Science Practice 4

The student can plan and implement data collection strategies in relation to a particular scientific question. (Note: Data can be collected from many different sources, e.g., investigations, scientific observations, the findings of others, historic reconstruction and/or archived data.)

### Science Practice 5

The student can perform data analysis and evaluation of evidence.

### Science Practice 6

The student can work with scientific explanations and theories.

### Science Practice 7

The student is able to connect and relate knowledge across various scales, concepts and representations in and across domains.