



Physics

Course Description: Physics will emphasize the laws governing the workings of the Universe, from the smallest subatomic scales to transgalactic scales. Topics will include: kinematics, forces, gravitation, momentum, energy, oscillations, light, and an introduction to electricity, magnetism, and modern physics. This laboratory-oriented course includes both in-class experiments and engineering oriented projects. Physics is necessary in virtually all STEM careers

Attendance: Students are required to be in school every day. Students are responsible for communicating with their teachers to make up missed learning.

Essential Skills:

1. Analyze data to support conceptual claims
2. Use mathematical representations to support conceptual claims
3. Create computational models to calculate conceptual claims
4. Develop and use models to illustrate conceptual understanding

Course Expectations: Although not everything is graded, everything is important. In order to demonstrate growth and learning, students will need to:

1. Participate in class activities (take notes, work in a group, complete in class tasks, ask questions) without distractions (cell phones, games, etc.)
2. Use morning time and the teacher to seek help outside of class when needed.
3. Complete all assessments within teacher timelines.

Grading Learning (Practice) includes instructional activities in and outside of class and are not used in grade determination

Skyward Assessment (Grades) may include quizzes, labs, learning checks, tests, speeches, performances, and projects.

Final Grade	
A	100% - 90%
B	80% - 89%
C	70% - 79%
D	60% - 69%
F	0% - 59%

Calculations:

Final Grade Calculation	
Cumulative Grade	95%
Final Exam(s)	5%

Central High School Courses:

- Will determine grades based on student performance and growth.
- Will not include practice and behavior in grade determination.
- Will give all students regardless of absence an opportunity to demonstrate learning.
- Will not include extra credit.

Instructional Resources: Conceptual Physics - Hewitt

Course Calendar/Pacing:

August/September							October							November						
		30	31	1	2	3	2	3	4	5	6	7	8			1	2	3	4	5
4	5	6	7	8	9	10	9	10	11	12	13	14	15	6	7	8	9	10	11	12
11	12	13	14	15	16	17	16	17	18	19	20	21	22	13	14	15	16	17	18	19
18	19	20	21	22	23	24	23	24	25	26	27	28	29	20	21	22	23	24	25	26
25	26	27	28	29	30		30	31						27	28	29	30			
December							January							February						
				1	2	3	1	2	3	4	5	6	7				1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30		29	30	31					26	27	28				

March							April							May/June						
			1	2	3	4	2	3	4	5	6	7	8		1	2	3	4	5	6
5	6	7	8	9	10	11	9	10	11	12	13	14	15	7	8	9	10	11	12	13
12	13	14	15	16	17	18	16	17	18	19	20	21	22	14	15	16	17	18	19	20
19	20	21	22	23	24	25	23	24	25	26	27	28	29	21	22	23	24	25	26	27
26	27	28	29	30	31									28	29	30	31	1	2	3
Intro/Math/1D Motion							2D Motion / Gravity							Energy/Rotational						
Waves							Electricity							Professional Development						
														Semester Exams						