

# **Strategies to Prepare ACT in an Effective Way** What You Need to Know the Aptitude of ACT Aspirants

ACT Preparation Guidance and Tips

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## **ACT Overview**

- The ACT is a college entrance exam that many colleges and universities in the United States use as part of the *college admissions process*.
- The ACT is a standardized test that assesses a student's skills in five core areas: English, Math, Reading, Science, and Writing (optional).
- Students of all 4 years form 9<sup>th</sup>-12<sup>th</sup> grade take the ACT so that they can submit their scores to colleges as part of the college application process. Usually 11<sup>th</sup> and 12<sup>th</sup> grade students take the ACT.
- ★ ACT scores are valid for 5 years, from the date that they are taken.

## **Exam Details**



ACT Sections	Duration (in min.)	Questions	Content/Skills Covered	Question Types	
English	45	75	Grammar & usage, punctuation etc.	Multiple-choice usage/mechanics and rhetorical skills	
<b>Math</b> 60 60		60	Algebra, geometry, trigonometry etc.	Multiple-choice	
Reading	Reading3540Reading comprehension		Multiple-choice referring and reasoning		
Science	3540Interpretation, analysis etc.		Interpretation, analysis etc.	Multiple-choice data representation etc.	
Essay* (Optional)	30	01	Writing skills	Essay prompt	

 Table 1: Content and curriculum coverage of each subject of ACT.
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 Image: Content and curriculam coverage of each subject subject

- \* If you take the ACT with Writing, your essay will not factored into the composite score.
- Source: <u>http://www.act.org/content/act/en/search.html#stq=syllabus</u>

## **ACT Scoring System**



	English	Math	Reading	Science	Writing /Essay* (Optional)	ELA	STEM	Composite
Total # of Questions	75	60	40	40	1	115	100	215
Scaled Score	1-36	1-36	1-36	1-36	2-12	1-36	1-36	1-36
Time/Question	36 Sec.	60 Sec.	52.5 Sec.	52.5 Sec.	NA	NA	NA	NA
Question Type	Multiple Choice	Multiple Choice	Multiple Choice	Multiple Choice	Essay Prompt	NA	NA	NA

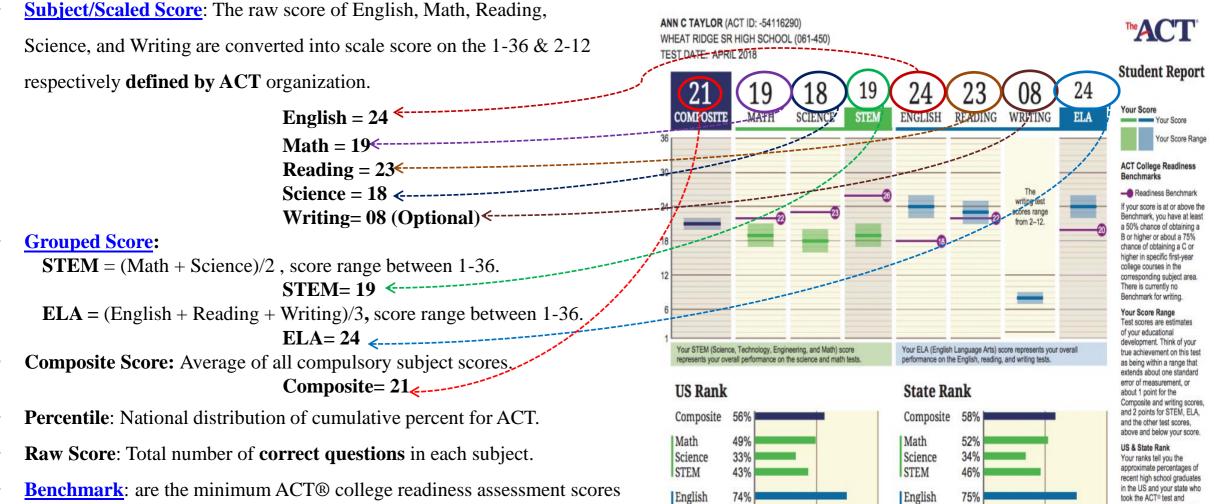
#### Table 2: ACT Scoring System.

- Subject Score: There are 4 subjects scaled score.
- **Grouped Score**: STEM (Math + Science) and ELA (English + Reading + Essay\*).
- **Composite Score**: Average of all subjects (English + Math + Reading + Science) scaled score.

\* If you take the ACT with Writing, your essay will not factored into the composite score. NA - Not Applicable

## **Understanding ACT Score Conversion**

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Reading

Writing

ELA

66%

90%

82%

50%

- bearing college courses.
- Marking System: 1 point for each correct answer, no negative marking for incorrect answer.

Reading

Writing

ELA

100%

68%

91%

84%

50%

ook the ACT® test and received scores that are the

same as or lower than you

means 56% of students

or below

earned that Composite score

scores. For example, a rank of 56 for your Composite score

## **Smart Strategy for Preparation: Case Study**

#### Strategy:

Step1: Take a mock-up test Step 2: Find the strong subjects. Step 3: Setting the ACT targeted composite score. Step 4: Subject Area & Topic-Wise Analysis to Improve Total Points.

#### **Step 1: Finding your strong subjects**

You take the mock-up test without preparation with any institutes or online tools like Socrato, which provides the diagnostic/analytical reports etc.

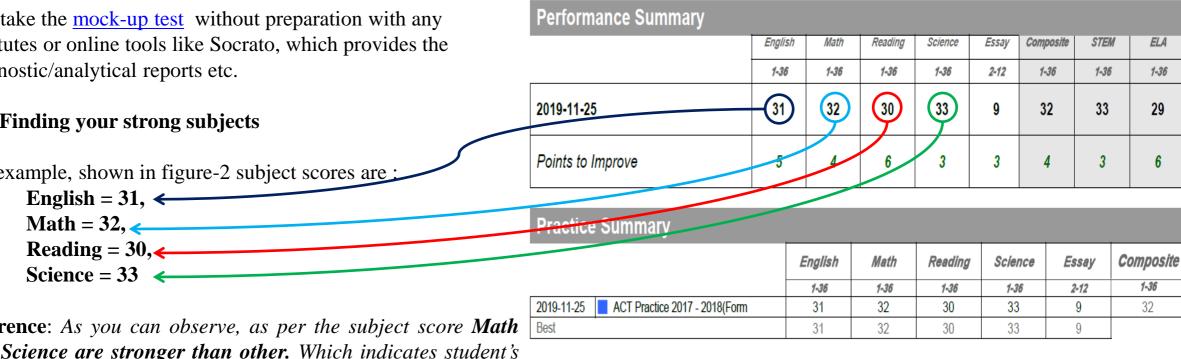
#### **Step 2: Finding your strong subjects**

- For example, shown in figure-2 subject scores are English = 31,  $\leftarrow$ Math = 32,
- **Inference**: As you can observe, as per the subject score **Math** Best and Science are stronger than other. Which indicates student's natural strengths are Math and Science.

Figure 2: Subject-wise Performance Summary of a Student

ACT Diagnostic for Demo, Student

**Big Picture — Your Scores, Practice History, and Trends** 



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## **Effective Strategy to Achieve the Targeted Composite Score: Case Study**

#### **Step 3: Setting the targeted composite core.**

- To figure out your ACT target score, look up the score range requirements of colleges.
- Usually on an average score range requirements of many colleges are **34-36**.
- For example:
  - Assume, you are targeting for **34**
  - And your **Baseline ACT Composite Score** = 32 as per the mock-up test.
  - Score difference between targeted score and mock-up test score.

Difference between ACT Composite Score and Baseline ACT Composite Score i.e. **34-32=02** 

Therefore, 2 more scale points are needed to achieve your goal.

## ACT Diagnostic for Demo, Student

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## **Big Picture — Your Scores, Practice History, and Trends**

Performance Summary								
	English	Math	Reading	Science	Essay	Composite	STEM	ELA
	1-36	1-36	1-36	1-36	2-12	1-36	1-36	1-36
2019-11-25	31	32	30	33	9	32	33	29
Points to Improve	5	4	6	3	3	4	3	6

Practice Summary										
	English	Math	Reading	Science	Essay	Composite				
	1-36	1-36	1-36	1-36	2-12	1-36				
2019-11-25 ACT Practice 2017 - 2018(Form	31	32	30	33	9	32				
Best	31	32	30	33	9					

Figure 3: Performance Summary of a Student in Mock Test

## **Subject Area Analysis to Improve Total Points: Case Study**

Step 4: Subject Area & Topic-Wise Analysis to Improve Total Points.

r example, points scored in the mock-up test are shown in table 5.						
Subject	Actual Correct Question	Equivalent Scaled Score				
English	67 <					
Math	54 <	32 €======				
Reading	33	30				
Science	37 <	33.				
Total/Composite	191 (Total)	( <b>31+32+30+33</b> )/ <b>4=31.5</b> ≈32 (Composite)				

Table 3: Actual Score of the Mock-up Test

To get 34 (targeted score) scaled score - we need to adjust 10 points to increase 2 composite points = 32+2 = 34 composite.

Subject	Points to Improv e	Expected Correct Question	Equivalent Scaled Score	Scale Points Improved
English	4	71	34	3
Math	4	58	35	3
Reading	0	33	30	0
Science 2		39	35	3
Total/ Composite	10	201 (Total)	(34+35+30+35)/4=33.5 ≈ 34 (Composite)	(3+3+0+3)/4=2.25 (Composite)

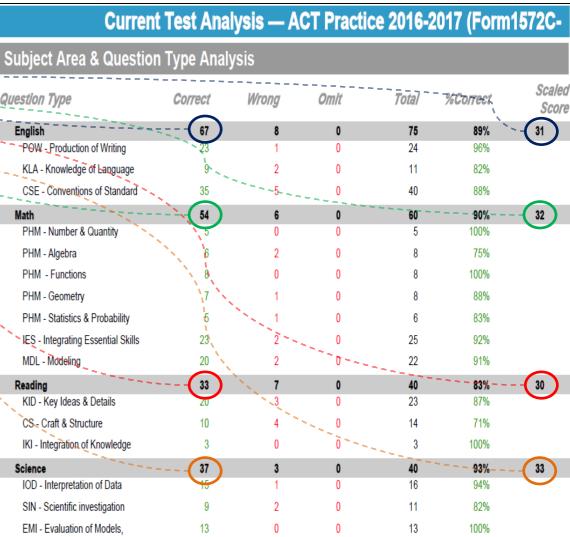


Figure 4: Subject Area and Question Type Analysis

For example points scored in the mock-up test are shown in table 3

Table 4: Expected Score for the Test

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## English-Subject Area Analysis to Improve Total Points: Case Study Contd.

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### **Topic-wise analysis to gain 4 points in English:**

- As shown in figure-6, topic-wise performance summary of English:
  - There are 32 questions in USAGE/ <--٠ **MECHANICS** and student got 28 out of 32.
    - Within USAGE/ MECHANICS there are 14 questions in **Punctuation** and student got-10 out of 14- **Punctuation** is not the strength and will require lot of effort.
  - Student got = 31/35 in topic − **RHETORICAL** ≤ • **SKILLS** then medium chance i.e. more chances to get 100% over here to get all correct.
    - Within RHETORICAL SKILLS, Clear & **Concise Writing** = 03/09 and **Content**= < 18/19 then medium chance i.e. more chances to get 100% over here to get all correct.
- Inference: To get more marks in the less time, you • should first focus in the RHETORICAL SKILLS topic.

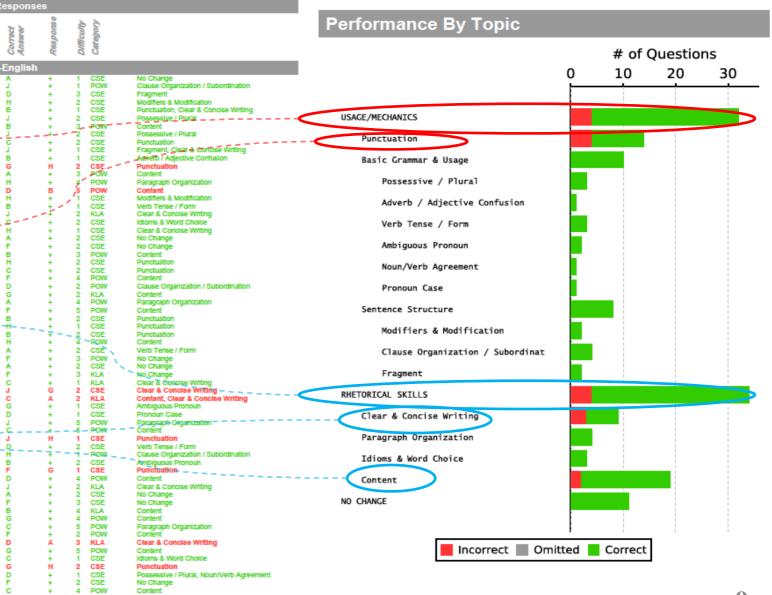


Figure 5: Topic-wise performance summary of a student for subject English

## Math-Subject Area Analysis to Improve Total Points: Case Study Contd..

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58

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### Topic-wise analysis to gain 4 points in Math:

- As shown in figure-6, topic-wise performance summary of Math :
  - There are 18 questions in Algebra & Functions and student got 14 out of 18.
    - Within Algebra & Functions there are 07 <--questions in Word Problems and student got 04 out of 07- Word Problems is not the strength and will require lot of effort.
  - Student got = 18/18 in topic Numbers & Operations
     then 90% chances that you will get same every time.
  - Student got = 18/21 in topic Geometry & 
     Measurement then medium chance i.e. more chances to get 100% over here to get all correct.
    - Within Geometry & Measurement, Coordinate (Analytical) Geometry = 04/06 and Measurement = 05/06 then medium chance i.e. more chances to get 100% over here to get all correct.
- **Inference**: To get more marks in the less time, you should first focus in the **Geometry & Measurement** topic.

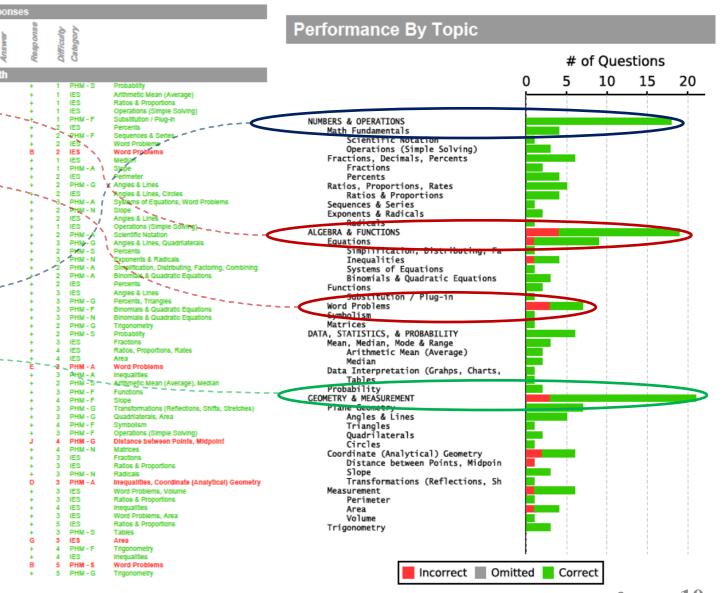


Figure 6: Topic-wise performance summary of a student for subject Math 10

# Science-Subject Area Analysis to Improve Total Points: Case Study Contd.. Socrato!

#### **Topic-wise analysis to gain 2 points in Science:**

- As shown in figure-7, topic-wise performance summary of Science :
  - Student got = 14/15 in topic **Data Representations** then then medium chance i.e. more chances to get 100% over here to get all correct.
  - Student got = 16/17 in topic **Research** <-**Summary** then then medium chance i.e. more chances to get 100% over here to get all correct.
  - Student got = 06/07 in topic Conflict  $\leq$  -View Points then then medium chance i.e. more chances to get 100% over here to get all correct.
- **Inference**: You can either work on Data **Representations or Research Summary or Conflict** View Points.

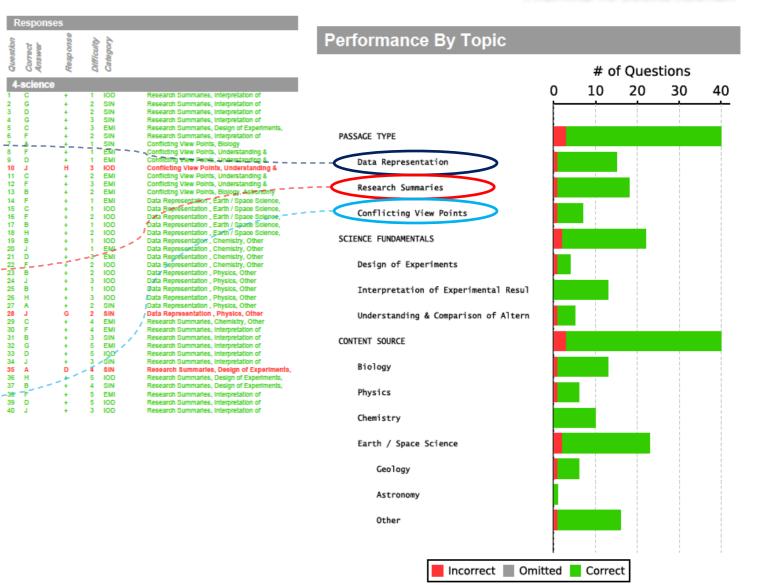


Figure 7: Topic-wise performance summary of a student for subject Science

## **Preparation as per Priority**

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Based on the above subjects and topic analysis, student's priority of preparation should be:

- Priority 2- If you solve at least 04 more questions correctly in Maththen your Raw Score will be 58 and Raw Score 58 ≈ Scaled Score 35.
- Priority 3- If you solve at least 04 more questions-correctly in
   English then your Raw Score will be -71 and Raw Score 71 ≈ Scaled
   Score 34. <------</li>
- No need to put extra effort in **Reading**, since you can earn 10 points within Science, Math, and English as we discussed above.
- Then final Composite Scaled Score will be  $(35+35+34+30)/4 = 33.5 \approx 34$ .

	Raw Scores						
Scale Score	Test 1 English	Test 2 Mathematics	Test 3 Reading	Test 4 Science	Scale Score		
36	75	60	40	40	36		
25	72-74	58-50	39	39	35		
34	71	57	38	38	34		
33	70	55-56	37		33		
32	68-69	54	35-36	_	32		
31	/	≂ <sup>▲</sup> =  = 52-53	34	36	31		
30	66	50-51	33	35	30		
29 /	65	48-49	32	34	29		
28	63-64	45-47	31	33	28		
27	62	43-44	30	32	27		
26	60-61	40-42	29	30-31	26		
25	58-59	38-39	28	28-29	25		
24	56-57	36-37	27	26-27	24		
23	53-55	34-35	25-26	24-25	23		
22	51-52	32-33	24	22-23	22		
21	48-50	30-31	22-23	21	21		
20	45-47	29	21	19-20	20		
19	43-44	27-28	19-20	17-18	19		
18	41-42	24-26	18	16	18		
17	39-40	21-23	17	14-15	17		
16	36-38	17-20	15-16	13	16		
15	32-35	13-16	14	12	15		
14	29-31	11-12	12-13	11	14		
13	27-28	8-10	11	10	13		
12	25-26	7	9-10	9	12		
11	23-24	5-6	8	8	11		
10	20-22	4	6-7	7	10		
9	18-19	_	—	5-6	9		
8	15-17	3	5 4 3	_	8		
7	12-14	2	4	4	7		
6	10-11		3	3	6		
5	8-9	1	_	2	5 4		
4	6-7	1	2	_	4		
3	4-5	_	—	1	3		
2	2-3	_	1	_	2		
1	0-1	0	0	0	1		

Figure 8: ACT Scale Score provided by ACT organization for 1572C PRE. 12

## Conclusion

As per the full analysis we reached to the conclusion, if we use these strategies there is a high possibility of achieving the targeted score.

#### Here is the final strategy:

- Decide the target score goal.
- Take the mock-up test.
- Find the difference between the mock-up test composite score and targeted composite score.
- Analyze the mock-up test.
- Identify the strong and areas of improvement in subject-wise and topic-wise.
- Prepare first high priority subject and topics.
- Take practice individual subject test to check the improvement.
- Take full length test before actual test.

# **Appendix: Resources**



- ACT Information https://www.act.org/
- Socrato Brand New ACT Report

https://www.socrato.com/socrato-reports/student-reports/

• More Information on the ACT

https://www.act.org/content/act/en/products-and-services/the-act-non-us/test-preparation.html

**Thank You** 

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