

A photograph of a university campus featuring a row of modern, multi-story concrete buildings with balconies. In the foreground, there is a paved area with a circular feature, possibly a fountain or a large planter, and some greenery. The sky is bright with scattered clouds.

# Sharing good practice –Assessment with integrity

**Dr Tebogo Mashifana**

19 August 2020



UNIVERSITY  
OF  
JOHANNESBURG

# Defining Academic Integrity

- **“an obligation to ... defend intellectual honesty”**
- **“primary responsibility to their subject is to seek and to state the truth as they see it.”**
- **demonstrate “the best scholarly and ethical standards of their discipline” to students.**
- **“make every reasonable effort to foster honest academic conduct and to ensure that their evaluations of students reflect each students’ true merit.”**



# Respondus Monitor



## ARE YOU VERIFYING STUDENT IDENTITY?

Using a webcam to verify the student and their ID is the best way to know that the answers on the assessment are from the correct student.



## ARE YOU DETECTING SECONDARY DEVICES?

Your online proctoring solution should be equipped with technology to detect mobile devices and alert the proctor.



## ARE YOU PREVENTING ACCESS TO EXTERNAL RESOURCES?

Conducting room scans, monitoring student activity, and identifying the use of other browser windows helps ensure students stay on track for success.



## ARE YOU RELYING ON A RECORD AND REVIEW MODEL?

By providing real-time monitoring, you can prevent academic dishonesty before it ever happens. Proctors can intervene and help students get back on track improving academic outcomes.



## DO YOUR STUDENTS FEEL WATCHED WHILE TAKING AN EXAM?

Using AI technology to monitor the exam and alert live proctors to potential issues provides more flexibility and relief while still maintaining academic integrity.

**What can we do?**

# Strategies to for online assessment with integrity

**1. Assessment design: Create questions that require higher order thinking.** Avoid questions that students can easily google. Create question where students can explain, analyze, create, compose, evaluate, to demonstrate they master the course content.

**2. Use varied question types – avoid** all multiple choice or true and false questions and include open-ended questions.

The screenshot displays a learning management system interface. On the left is a sidebar with navigation links: Module Overview, Meet Your Lecturer, Meet Your Tutors, Learning Guide, Respondus LockDown Browser, and Learning Units (Unit 1 through Unit 7). The main content area has tabs for 'Create Question', 'Find Questions', and 'Upload Questions'. A dropdown menu under 'Create Question' is open, listing various question types: Calculated Formula, Calculated Numeric, Either/Or, Essay, File Response, Fill in Multiple Blanks, Fill in the Blank, Hot Spot, Jumbled Sentence, Matching, Multiple Answer, Multiple Choice, Opinion Scale/Likert, Ordering, Quiz Bowl, Short Answer, and True / False. A red box highlights this list, and a red arrow points from the 'File Response' option to the 'Criteria Summary' section. The 'Criteria Summary' section shows 'Question types' set to 'All Pool Questions' and 'Displaying 1 to 9 of 9 items'. Below this is a table with columns for 'QUESTION TEXT', 'QUESTION TYPE', and 'DEFAULT POINTS'. The table contains one visible row for a class activity on legislation, which is an 'Essay' type question worth 10 points.

QUESTION TEXT	QUESTION TYPE	DEFAULT POINTS
24 July 2020 Class activity: Legislation: After engaging with the lecture slides on legislation. Please answer the ques...	Essay	10

### 3. Creatively and continuously remind students of academic integrity policies

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Module Overview

Meet Your Lecturer

Meet Your Tutors

Learning Guide

Learning Units

Unit 1

Unit 2

Unit 3

Unit 4

Unit 5

Unit 6

Unit 7

Tests

Practicals

My Marks

Create Announcement

New announcements appear below this line

↑

**Student academic dishonesty and plagiarism**

Posted on: Wednesday, 5 August 2020 04:23:35 o'clock SAST

Dear students,

[Appendix C - Official Plagiarism Information.pdf](#)

Please read this urgent and important announcement : "Student Academic Dishonesty (SAD) takes many forms, including but not limited to using **paid ghost students to write online assessments**, **using social media groups (e.g. What's App) to collaborate with other students** on individual assignments, **plagiarism from the Web**, paying for online services to have online assignments done". Should there be evidence of students being dishonest in the assessment conducted, they will be **reported to the authorities for further investigations**, and to allow UJ law to take its course. Some of the consequences for such unethical practices may include dire consequences (including **exclusion from the University**) if one is found guilty.

Please take this announcement serious and always be ethical and honest . Also visit the last section of your study guide concerning plagiarism. The document is also posted under module overview section.

Regards,

Dr Tebogo Mashifana

Posted by: TEBOGO MASHIFANA

Posted to: 202ENVCHB3 (202ENVCHB3) ENVIRONMENTAL ENGINEERING 3B

**Remind students continuously, throughout the semester!**

## 4. Make students sign a declaration related to assessment integrity before the assessment

The screenshot displays the Blackboard assessment interface. On the left is a dark sidebar with navigation links: Tests, Assignments, Practicals, My Marks, Student Resources, References, Policies & Documents, UJ Support, Blackboard help, Library support, Workshop Feedback, Module Evaluation, Collaboration, and Collaborate Ultra. The main content area shows a warning: 'This test does not allow backtracking. Changes to the answer after submission are prohibited. Your answers are saved automatically.' Below this is a 'Question Completion Status' section. A message states: 'Moving to the next question prevents changes to this answer.' The current question is 'Question 1', worth '0 points', with a 'Save Answer' button. The question text, enclosed in a red box, reads: 'I declare that I will be honest when conducting the assessment. I am aware of the consequences should there be suspicions and evidence of dishonesty.' Below the text is a rich text editor with various formatting tools. At the bottom, it shows 'Path: p' and 'Words:0'.

Tests

Assignments

Practicals

My Marks

Student Resources

References

Policies & Documents

UJ Support

Blackboard help

Library support

Workshop Feedback

Module Evaluation

Collaboration

Collaborate Ultra

This test does not allow backtracking. Changes to the answer after submission are prohibited.

Your answers are saved automatically.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 1 of 13

Question 1

0 points Save Answer

- I declare that I will be honest when conducting the assessment.
- I am aware of the consequences should there be suspicions and evidence of dishonesty.

Rich text editor toolbar with options like Paragraph, Arial, 3 (12pt), Bold, Italic, Underline, Text Color, Background Color, Bulleted List, Numbered List, Indent, Outdent, Link, Unlink, Image, Table, and more.

Path: p Words:0

**Add academic integrity statement. Create academic integrity forum/quiz for students to acknowledge the policy**

## 5. Clearly communicate expectations. Make students aware of the assessment instruction before the assessment

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Unit 2

Unit 3

Unit 4

Unit 5

Unit 6

Unit 7

Tests

Assignments

Practicals

My Marks

Student Resources

References

Policies & Documents

UJ Support

TEST 2B INSTRUCTIONS, AVAILABILITY

Posted on: Thursday, 18 June 2020 00:44:20 o'clock SAST

Dear all,  
Please familiarize yourself with the instructions for Test 2B. The test will be available from 16:00pm to 17:30pm. **All the work must be submitted during the allocated time.**

- Purpose of assessment is to determine not only if you can write down an answer, but also to assess whether you understand the concepts, principles and expressions involved. Set out solutions in a logical and concise manner with justification for the steps followed.
- **ATTEMPT ALL QUESTIONS.** Please answer each question to the best of your ability.
- Make sure that you read each question carefully before attempting to answer the question.
- You will **only have one attempt** to answer the question. Once, you submit, you will not be able to correct your answer.
- Immediately **after completing the assessment, submit your rough work** on the link provided, showing all the steps for you to get to your answer. This will be marked together with the online submission. This should be submitted immediately after completing the online assessment during the time allocated for assessment. **I will not receive any documents submitted through email.** Failure to submit the rough work will result into the assessor only marking the answers on Blackboard, which may result into lower marks, as only correct answers will be given a mark.
- Ensure your responses are legible, clear and include relevant units (where appropriate).
- **Test 2B has only 10% questions to be done online. 90 % of the test requires you to submit your worked out solutions. Use the link provided to submit calculations for question 1.1. Responses to questions 1.2 to 2.3 should be attached for every question.**

Posted by: TEBOGO MASHIFANA  
Posted to: 201AEE8X01 (201AEE8X01) ADVANCED ENVIRONMENTAL ENGINEERING



## 6. Set-up the exam to show one question at a time, randomize questions and prohibit backtracking

### TEST PRESENTATION

- ☐ All at Once  
*Present the entire test on one screen.*
- ☒ One at a Time  
*Present one question at a time.*
- ☒ Prohibit Backtracking  
*Prevent changing the answer to a question that has already been submitted.*

- ☒ Randomise Questions  
*Randomise questions for each test attempt.*

- To avoid students from looking over all of the test questions and having multiple tabs open to research answers to questions
- To avoid students having family and friends responsible for a certain set of questions

- Require students to focus solely on one question at a time, answer it with a final answer, and then move to the next question.
- It can educate students from using extra time at the end of the test to try to locate the correct answer and force them to answer the question to the best of their already learned knowledge.

- To avoid student using screen sharing technologies and share answers with peers.
- Student get different questions, making it difficult to share answers.

**One at a time...Prohibit Backtracking...Randomise!**



## 7. Offer different versions of the same test. Very Important!!!

Learning Guide

Learning Units

Example

Unit 1

Unit 2

Unit 3

Unit 4

Unit 5

Unit 6

Unit 7

Tests

Total Points 57.5

Details: Calculated Formula Question

Question Title 1.1 (a)

Question A sample of sewage was incubated for 2 days and its BOD was found to be [x] ppm at a temperature of 20 °C.  
what is the ultimate BOD, assuming that the rate constant is 0.1 /day.  
  
x = concentration of sample in ppm  
  
Your answer should be round off to one decimal aplace

Answer

Answer Formula 
$$\frac{(x)}{(1 - 10^{-0.1 \times 2})}$$

Precision Decimal

Use variables in the questions,  
students get different values to do their  
calculations

Learning Guide

Learning Units

Example

Unit 1

Unit 2

Unit 3

Unit 4

Unit 5

Unit 6

Unit 7

Variable Name Minimum Value Maximum Value Decimal Places

x 0 200 0

ANSWER SET OPTIONS

Calculate Answers to

1 Decimal

Number of Answer Sets


20









Correct Answer Format

Normal

- Number of answer sets depending  
on the number of students

## 8. Allow student to only take the test once and assessment timer





Blogs

Bookshelf

Cengage Learning

MindLinks™

Contacts

Content Market Tools

Course Calendar

Course Messages

Discussion Board

Glossary

Goals

Journals

McGraw-Hill Higher Education

Microsoft Teams

Mobile Compatible Test List

Respondus LockDown Browser

Rubrics

SafeAssign

Self and Peer Assessment

Tasks

Tests, Surveys and Pools

Turnitin Assignments

- ☐ Multiple Attempts
- ☐ Allow Unlimited Attempts
  - ☐ Number of Attempts

Score attempts using

Last Marked Attempt ▾

- ☐ Force Completion
- Once started, this Test must be completed in one sitting.*

- ☒ Set Timer
- Set expected completion time. Selecting this option also records completion time for this test. Students will see the timer option before they begin the test.*

Minutes

Auto-Submit

☐ OFF ☒ ON

Click **Submit** to edit options for this test. Click **Cancel** to quit.

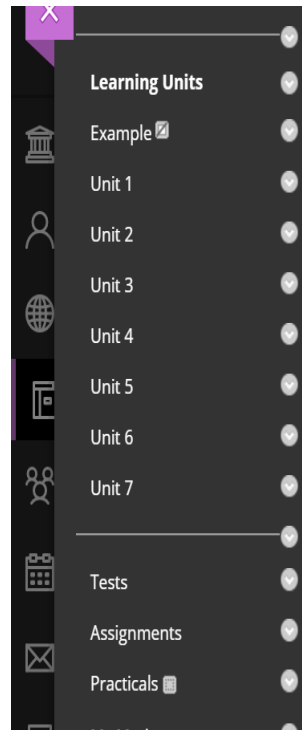
Cancel

Submit

Allow one attempt for assessment to avoid students referring to other sources to correct their answers.

Just like a physical environment, set assessment time and timer, to notify students of the time left for completion.

## 9. Let students submit their work as an attachment, after the assessment. Create questions that allow only “file response” answers



Question Completion Status:

⚠ Moving to another question will save this response.

### Question 12

An oil pipeline leak results in emission of  $x$  g/h of  $H_2S$ . On a very sunny summer day, with a wind speed of 3 m/s,

(a) assuming class B stability, what is the dispersion coefficients  $\sigma_y$  and  $\sigma_z$ ? (1)

(b) what will be the concentration of  $H_2S$  1.5 km directly downwind from the leak? (3)

$x$  = emission from the source g/h

Use the  $x$  value obtained in the previous question 11

Do your calculations and upload your work.

Attach File

Browse My Computer

Br

216 91  
T.S. ... S.I.T.N  
AEE8X01  
TEST 2A

Question 2

Given: 2 days,  $BOD = 31 \text{ ppm}$ ,  $Temp = 20^\circ C$ ,  $Constant = 0.1/\text{day}$

$$\text{let } BOD_5^{20} = L_0 (1 - 10^{-k_1 t})$$

$$\Rightarrow L_0 = \frac{-31}{(1 - 10^{-0.1 \times 2})} = 84.001122978 \approx 84.0 \text{ ppm}$$

Do not only give a mark for the correct answer on BB. Mark in conjunction with the file response.

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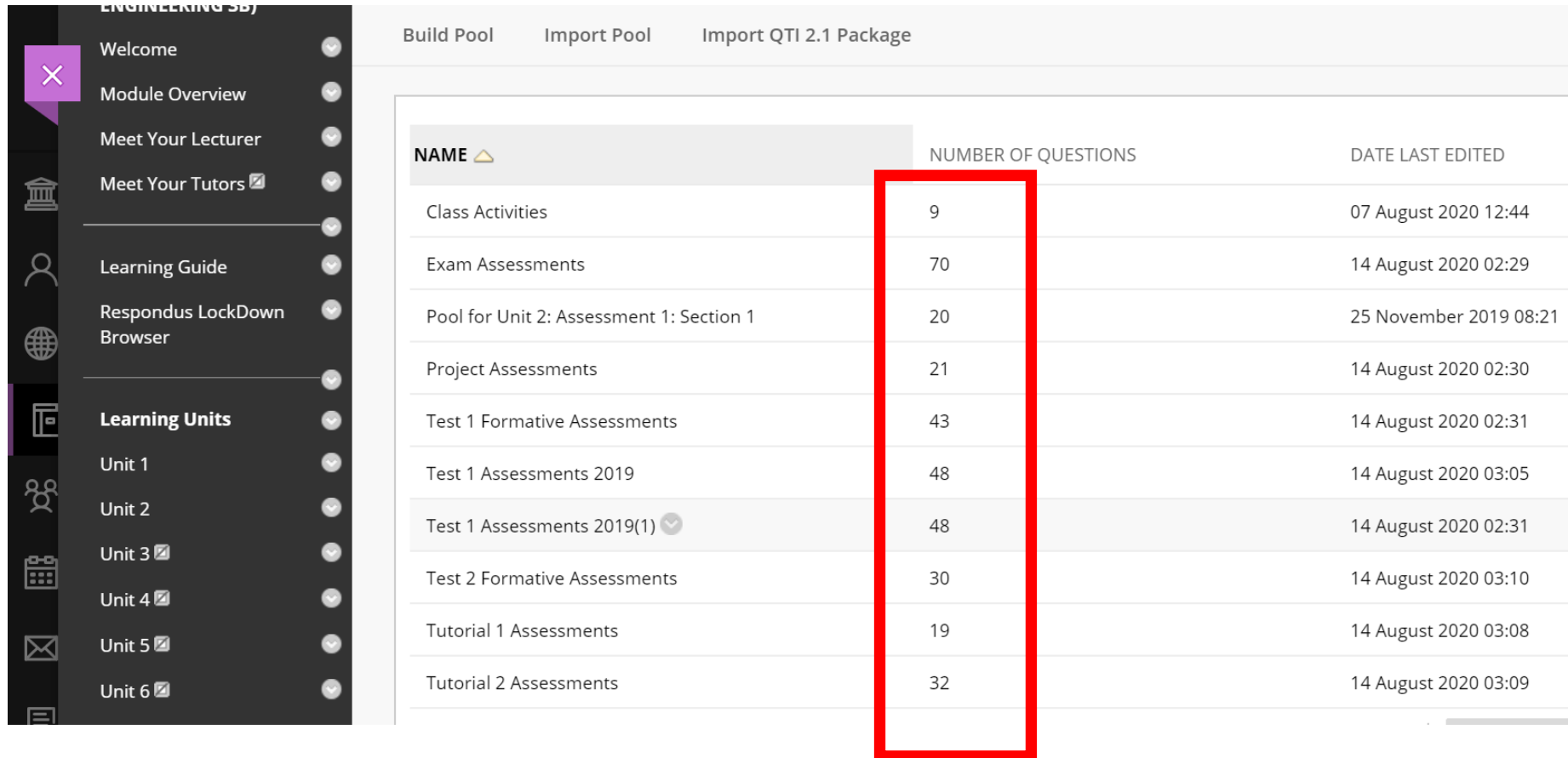
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- Ensure your responses are legible, clear and include relevant units (where appropriate).
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Posted by: TEBOGO MASHIFANA  
Posted to: 201AEE8X01 (201AEE8X01) ADVANCED ENVIRONMENTAL ENGINEERING

To ensure student have not just copied the correct answers but have attempted the questions



## 10. Plan for technical issues, be prepared to have more than one assessment



The screenshot shows a software interface for building a question pool. On the left is a dark sidebar with navigation options. The main area has tabs for 'Build Pool', 'Import Pool', and 'Import QTI 2.1 Package'. Below the tabs is a table with three columns: 'NAME', 'NUMBER OF QUESTIONS', and 'DATE LAST EDITED'. A red rectangular box highlights the 'NUMBER OF QUESTIONS' column.

NAME	NUMBER OF QUESTIONS	DATE LAST EDITED
Class Activities	9	07 August 2020 12:44
Exam Assessments	70	14 August 2020 02:29
Pool for Unit 2: Assessment 1: Section 1	20	25 November 2019 08:21
Project Assessments	21	14 August 2020 02:30
Test 1 Formative Assessments	43	14 August 2020 02:31
Test 1 Assessments 2019	48	14 August 2020 03:05
Test 1 Assessments 2019(1)	48	14 August 2020 02:31
Test 2 Formative Assessments	30	14 August 2020 03:10
Tutorial 1 Assessments	19	14 August 2020 03:08
Tutorial 2 Assessments	32	14 August 2020 03:09

**Create a pool of questions to draw from, load shedding, connection challenges etc.!**



# Exciting tool – LockDown Browser

- **Custom browser that prevents digital cheating during online assessment**
- **Lock students into a browser until assessment is completed**
- **You can set it up for students not to access any other external web domain**
- **Does not allow students to open any application with the App i.e. no word, pdf, email etc. or any tabs.**

Once set up, this is how the assessment appears.  
You can only take assessment using the App



Quiz 2 14 August 2020- Requires Respondus LockDown Browser

ENTER PASSWORD: QUIZ 2 14 AUGUST 2020- REQUIRES RESPONDUS LOCKDOWN BROWSER

*Enter the Password to take the test.*

Password

- If you try the assessment without the App
- Protects the question paper/assessment by including a password



This assessment requires you to use Respondus LockDown Browser. Start Respondus LockDown Browser and navigate back to this assessment to continue.

**Connection,  
Students not able to  
submit online:**

**Allow submission to  
my email and deduct  
marks for late  
submission.**

**Load shedding:**

**set a new  
assessment and  
allow students to  
write another  
assessment**



**LockDown Browser App  
not supported by  
student's device:**

**Created a separate BB  
assessment, live  
monitoring (test/exam),  
student sign  
confidentiality agreement  
(tutorials).**

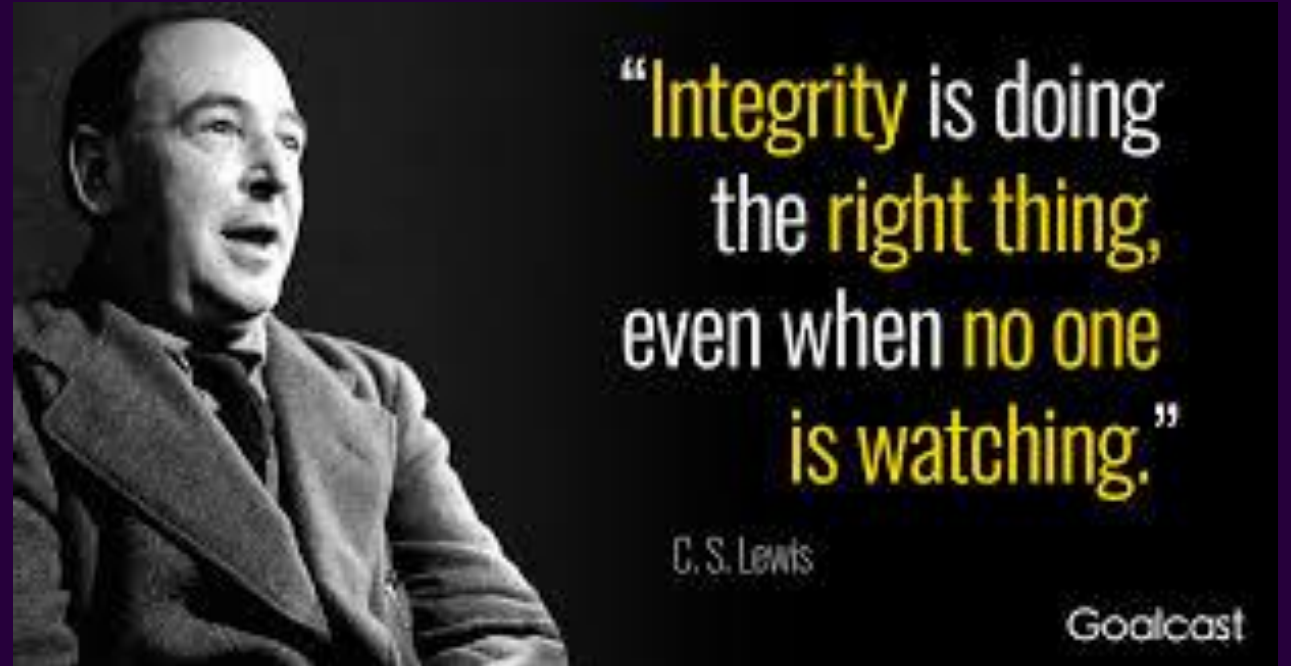
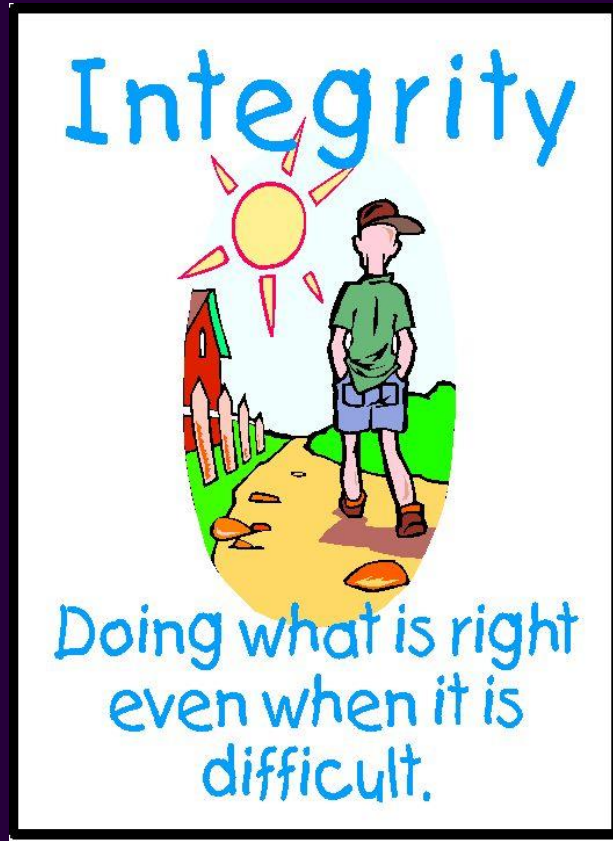
**Students forgot to attach  
their work:**

**Allow submission  
through email within the  
assessment period**



My responsibility

Instill these values



Teach students

To be honest