# TEL Activity Plan
# TEMPLATE

**Name:** *Jokotade Owoso*
**Grade / Course:** *Higher National Diploma 1(Analytical Chemistry)*
**Length of Activity:** *1hr*

**Lesson Description:**
Review the interaction of electromagnetic radiation with matter and relate to the principles and applications of fluorimetry

**Intended Learning Outcomes**
1. Explain the principle of molecular fluorescence
2. Analyse a given inorganic sample for its metal ion content using a spectrofluorimeter

**Resources/Technology**
Student Laptop or smart phone, access to the Internet, class WhatApp platform; functional email address

**STUDENT ACTIVITIES**
Read, review, respond, explore and self-assessment activities are listed below.

**READ** 1. Lecture notes –powerpoint presentation via whatsApp
2. Further reading materials- Christian Dasgupta & Schug (2014). Analytical Chemistry (Section 16.15-16.17).
Analytical_Chemistry_7e_by_Gary_D._Christian.pdf
3. https://www.slideshare.net/krakeshguptha/flourimetry

**REVIEW** video link- Spectrofluorimetry by Jobin Kunjumon Vilapurathu-
https://www.slideshare.net/jobinkv/spectrofluorimetry and
https://www.slideshare.net/HannanZoologist/spectrofluorimetry-65046935

**RESPOND**
For quantitative spectrofluorimetry, how would you obtain the concentration of the sample from the measured fluorescent emission intensity? Post your answer to the class Whatsapp platform.

**EXPLORE**
Find additional open education resources on the instrumentation and applications of spectrofluorimetry.

**ASSESS YOUR OWN LEARNING**
From your reading in https://www.slideshare.net/krakeshguptha/flourimetry,
List and explain any two factors that affect the intensity of fluorescence emission.
Discuss your answer with coursemates via chat on the class WhatsApp platform.

**Student Assessment**

Using the calibration method, describe in details how you would analyse a given sample solution for its zinc ion content with a spectrofluorimeter. You are to submit your assignment by email to jokotade1@gmail.com