

## Technology Enabled Learning Classroom Catalyst

**Title:** Creating Classroom Summaries with Screencastify

**Tech Tool:** Screencastify

**What is this?** Screencastify is an online screen recorder. This application allows individuals to record their desktop, browser or webcam. It also allows users to narrate with their external microphone.

**How do I use this?** <https://www.screencastify.com/tutorials/>

**Why use this?** Screencastify provides an opportunity for teachers and students to create video lessons for class.

Screencastify allows students to present to the class without the stress presenting live. Screencastify gives classes the opportunity to build a knowledge base that all students can access during a course and to easily revisit content at a later date.

Screencastify allows students to be more creative with their presentation skills

**Internet Safety:** Make sure that you and your students are safe when using technology in the classroom. This can include monitoring students to ensure that they are not using other applications and reminding them about school rules of online conduct.

**Course Code:** SCH 4U

Topics	Timing
Matter Chemical Trends and Chemical Bonding	Preparation: 15-30 mins Lesson: 2-3 Class periods (Includes Work Periods)

### Specific Expectations:

B3.1 explain the relationship between the atomic number and the mass number of an element, and the difference between isotopes and radioisotopes of an element

B3.2 explain the relationship between isotopic abundance of an element's isotopes and the relative atomic mass of the element

B3.3 state the periodic law, and explain how patterns in the electron arrangement and forces in atoms result in periodic trends (e.g., in atomic radius, ionization energy, electron affinity, electronegativity) in the periodic table

B3.4 explain the differences between the formation of ionic bonds and the formation of covalent bonds

B3.5 compare and contrast the physical properties of ionic and molecular compounds

## Introduction

Review in class is commonly assigned at the end of the unit to allow students to revisit material covered in a unit. Many students can have a challenging time recalling all the topics that were covered in class. Providing an opportunity for students to create a classroom resource that can be shared amongst students can be a helpful tool for students to use. Screencasting has allowed students and teachers to create individual videos to share on the web. Screencastify is an excellent resource that only requires Google Chrome to Screencast your web browser, desktop screen or even use your webcam to create a dynamic resource to use in class.

## Materials

One device per student/pair

## Teacher Set up

Students will have already covered all content discussed regarding chemical trends and chemical bonding.

Identify specific subtopics or questions that you want students to answer in their video.

Option 1: Use a set of review questions you already have available.

Option 2: List specific subtopics that have been covered in the unit for students to discuss.

Recommendation: Inform the students at the beginning of the unit that this project will be completed at the end of the unit. This will give students opportunity to plan ahead how they want to present their material.

## Lesson Plan

Description	Time
Teacher introduces assignment as a unit consolidation.	5 mins
Students will need to pick a subtopic/question to complete for screencasting.	5 mins
Students should take the time to plan and prepare their response for their video.	50 mins
Students will film/record their response on their device.	in-class 20-30 mins OR at home.
Student work is uploaded to a common location for teacher and classmates to access.	15 mins

<p><b>Instructional Strategies</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Brainstorming</li> <li><input checked="" type="checkbox"/> Computers</li> <li><input checked="" type="checkbox"/> Cooperative</li> <li><input checked="" type="checkbox"/> Demonstration</li> <li><input checked="" type="checkbox"/> Independent Work</li> <li><input checked="" type="checkbox"/> Video</li> <li><input checked="" type="checkbox"/> Written Exercise</li> </ul>	<p><b>Assessment Strategies</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Questioning</li> <li><input checked="" type="checkbox"/> Computers</li> <li><input checked="" type="checkbox"/> Group Assessment</li> <li><input checked="" type="checkbox"/> Oral Presentation</li> <li><input checked="" type="checkbox"/> Participation</li> <li><input checked="" type="checkbox"/> Peer Assessment</li> <li><input checked="" type="checkbox"/> Self Assessment</li> </ul>	<p><b>Character Education</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Courage</li> <li><input checked="" type="checkbox"/> Initiative</li> <li><input checked="" type="checkbox"/> Integrity</li> <li><input checked="" type="checkbox"/> Optimism</li> <li><input checked="" type="checkbox"/> Perseverance</li> <li><input checked="" type="checkbox"/> Responsibility</li> </ul>
<p><b>Strands</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Knowledge/Understanding</li> <li><input checked="" type="checkbox"/> Communication</li> </ul>	<p><b>Learning Skills</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Works Independently</li> <li><input checked="" type="checkbox"/> Teamwork/Collaboration</li> <li><input checked="" type="checkbox"/> Organization</li> <li><input checked="" type="checkbox"/> Work Habits</li> </ul>	<p><b>Resources/Equipment</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Computers/iPads</li> <li><input checked="" type="checkbox"/> Laptop/LCD</li> </ul>

### Safety

No safety issues.

### Teaching Suggestions/Hints

- Students can benefit with a checklist of expectations on what they should include in their video. E.g. How much detail to include. Expectations of diagrams or videos.

### Next Steps/Extensions/Other Topics for this Tech Tool

Next Steps for this lesson can include:

- Extension: Have students complete this activity for all units in the course to create an end of the year resource for exam review.
- Extension: Have students create a flip lesson to teach the class.

Other topics that can be taught using this tool include:

- This activity can be easily adjusted to be used in all units of any Science course.

### Additional Resources

- Screencastify video tutorials. <https://www.screencastify.com/tutorials/>
- Using screencasting to provide feedback. <https://www.techsmith.com/education-tutorial-feedback-snagit.html>