

**Science
Grades 11-12**

Daily Activities to Promote Scientific Literacy

“Students are encouraged to speak and complete the work in French if they are in FI.”

| Learning Activity | Time | Instructions | Considerations |
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| Innovative Problem Solving | 30 minutes to an hour | Come up with a way to water a plant for 8 days without turning on any water source. | Students could draw plans, write procedures on how to build it, or they could actually build it. How would they modify it if they had access to any material possible? |
| Analyzing Graphs | 15 to 30 minutes | Right now, in the news, there are many articles that include graphs and other data representations. Take some time to look at them carefully and talk about what they represent and how. Is there anything you notice or wonder about them? | <p>Here are a few more Kids questions you might want to discuss:</p> <ul style="list-style-type: none"> -What can you infer from this? -How does this relate to your life? -How does this make you want to know more about? -What are the questions you could ask to get that information? -What does the graph tell you that the rest of the article does not? -What headline would you write for this graph? <p>All sorts of news outlets have graphs on many other topics. This is a great place to start: https://www.nytimes.com/column/whats-going-on-in-this-graph</p> <p>For graphs in French, don't hesitate to look at French News outlets like Radio-Canada, L'Acadie Nouvelle, etc.</p> |
| Video Library- Let's Talk Science | | Visit Let's Talk Science-STEM Channel to watch short videos on a topic of choice. These short videos offer detailed information on a variety of topics. | <p>Take some time to write down some fun and interesting facts that you may have learned. https://letstalkscience.ca/educational-resources/video-channels/stem-channel-all-videos</p> <p>French videos: https://parlonssciences.ca/ressources-pedagogiques/videos/stim-channel-toutes-les-videos</p> |
| Online Video Resources- Khan Academy | 15 to 20 minutes a day | Visit https://fr.khanacademy.org/ for video lessons on different Science topics. These videos are available in both French and English. | Students will need to register to use this resource. Registration is free. |

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| Online Resources- Let's Talk Science – STEM at home | 15 to 20 minutes a day | Visit https://parlonssciences.ca/ressources-pedagogiques/les-stim-a-la-maison for a great selection of engaging resources and activities to promote learning at home in both French and English | This engaging resource will give you the option to discover hands-on activities using materials commonly found at home, watch an engaging web series or videos from around the web, participate in contests and competitions, and check out STEM in context. |
| Interactive Simulations- PhET | Explore one simulation a day | Visit https://phet.colorado.edu/fr/simulations to view interactive simulations on a variety of Science topics. These simulations are available in French and English. | Use these interactive simulations to work through concepts that you may have already covered or to explore new ones. All PhET simulations are free and easy to use. |
| Learning Inside Out- Learning for a Sustainable Future | One activity a week | Visit http://lsf-ist.ca/fr/projects/youth-taking-action/learning-inside-out for a weekly collection of different activities that have a special focus on learning outdoors. This resource is available in both French and English and has activities for all grade levels. | A new collection of activities will be added weekly and the theme will alternate between a focus on seasonal happenings and a focus on the United Nations Sustainable Development Goals. |