

We are excited that you'll be joining us for SkillsXhibition this year! Below are a few important pieces of information that you will want to read to ensure you are ready for your activity! All pre-recorded demonstration videos will be posted online by May 26th.

REQUIRED MATERIALS & SUPPLIES

Skills Canada Alberta Supplied Materials:

As a confirmed registrant for the Robotics "Build a Flitterbug Robot" session, SCA will cover the cost of one Flitterbug robot kit per student. To receive your free kits, please follow these direction:

1. Registered teachers will be e-mailed exact details for purchasing their free kits, including the number of kits they are eligible for and the checkout code needed to receive the FREE robot kits from this website: <https://www.jcmeducation.com/product-page/flitterbug-solar-kit>
2. Robot kits will be shipped directly to you (the teacher) at your school. When you order the kits, please include your name (teacher) and your school address.

Along with the robot kits, you will also receive safety glasses and a \$100 gift card to use towards purchasing soldering irons and/or tools required for the robot build (see list below).

School Supplied Materials:

- Needle nose pliers
- Side cutters
- Solder iron (must reach 700 degrees F)
- Solder (60/40 lead-free)
- Ruler
- Light source (LED lamp or LED flashlight work best)
- Sponge and water to clean solder iron tip

BEFOREHAND REQUIRED PREPARATION

Soldering iron(s) must be available to the participants during the session. Students **must** practise using the soldering iron safely prior to the session and **must** watch the Soldering videos here:

<https://www.jcmeducation.com/flitterbug-build-instructions>

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Please note: If you are setting up/opening kits before the session, please DO NOT allow students to touch the round PCB (white circuit board) to keep finger oils to a minimum (or you will need isopropyl alcohol to clean this piece).

SAFETY PRECAUTIONS

A well ventilated area is required when using the soldering iron (a small amount of smoke will be released). Please wear the supplied safety glasses at all times.

ACTIVITY DIRECTIONS (supplementary to the demonstration video)

Get an insider's view of the Flitterbug build by watching the Building Instructions Video and steps here:

<https://www.jcmeducation.com/flitterbug-build-instructions>

Optional solar education activities are available here:

<https://classroom.google.com/c/MjkyODkxNTI3NTYx?cjc=wnpzmtb>

GET CONNECTED WITH PADLET

Check out more tips and resources from industry and education experts with our exclusive SkillsXibition Padlet. You can also share photos and videos from your activities! We want to see how your builds & creations turn out! Each post you make before June 30th will earn you 1 entry in our draw for a \$100 gift card!



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