Skills Canada-Ontario Invites You to Celebrate

# "Skilled Trades Awareness Week"

# November 2 - 6, 2009

Resources Available for Educators to Explore With Their Students

- **There are hundreds of different skilled trade careers to choose from. Have your students begin exploring opportunities during Skilled Trades Awareness week by going on a field trip, inviting a tradesperson into your classroom, and doing hands-on activities!**
- **Explore the creativity and hands-on aspects of the skilled trades. Cook a meal, build a toolbox or make a geodesic dome.**
- **Find a new passion. With the five different sectors of skilled trades - the service sector, communication sector, construction sector, manufacturing sector and transportation sector, there's something for everyone!**

**For more information please visit:**

**www.skillsontario.com**

SKILLS COMPÉTENCES CANADA ONTARIO

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# TITANIC
# Tinfoil Boats!

**Time:** 30 to 60 minutes

**Employability Skills:** Problem Solving and Teamwork.

**Goal:** Students use their problem solving skills to design a structure made of tinfoil, which will support the most weight possible.

**Materials:**
- 100 marbles (or other items available in multiples to ensure consistent weight)
- Rolls of tinfoil – one meter per team
- One large bin
- Water to fill the bin
- Eight paperclips
- String – one meter per team

**Instructions:**
1) Divide groups into teams of two.
2) Give each team a paperclip and equal amounts of tinfoil and string.
3) Each team will have ten minutes to construct a tinfoil boat which will be weight- tested using marbles. They may use only the materials provided.
4) As the teams are constructing their boats, the instructor should prepare the bin full of water.
5) Each boat will be put into the water individually and marbles will be added, one at a time, until the boat sinks.

**Risk Management:** Floor safety may be an issue with water splashes.

**Comments/Variations:** Activity works best using a large container so the group can gather around. Students tend to be inspired to create a second design.