

STEM

Science | Technology
Engineering | Mathematics

SCIENCE OF EGGS

THE ADVENTURE:

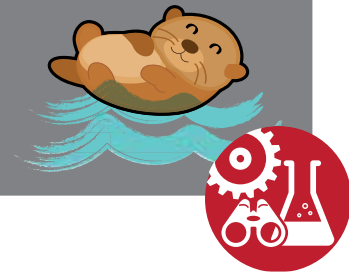
Have you ever walked on eggs? Test how strong an egg can be and then try to make it even stronger by making an unbreakable package from recycled materials!

PLAN:

- Do you want to do this adventure inside, outside or at camp?
- Where can you find cheap eggs for this activity?
- What do you think will happen if you walk on the eggs?
- What materials can you use to make a safe and strong package for eggs?
- Where will you drop your eggs? Is there a safe structure from which you can drop your eggs? How could you make one?
- What do you notice when you squeeze an egg?

Canadianpath.ca

RASCAL'S RIVER Creative Expression



DO:

Activity #1: Walk on eggs:

- White tails and Scouters have set up a stepping stone walkway of eggs in their cartons.
- One at a time, walk over the eggs barefoot.

Activity # 2: Unbreakable eggs:

- Design a package that will protect an egg from breaking or cracking if it is dropped from a height. How will you keep the egg safe?
- Drop your eggs from a consistent height. If your egg survives the trip, drop it from a larger height.
- How can you improve your design? Try another design and see how it works.

the
Pond

Imperial



ExxonMobil



It starts with Scouts.

REVIEW:

- What do you know now that you did not know before?
- What happened when you walked across the eggs?
- Why didn't the eggs break when you walked on them?
- How did you make your egg package? What materials did you use?
- How can you offset the waste from this adventure?
- What elements of STEM were in this adventure? Science? Technology? Engineering? Mathematics?
- What did you like about the adventure? What did you not like about it? How would you do this adventure differently?

MATERIALS:

- 5-6 half dozen raw eggs in their original cartons
- Tape
- Scissors
- Glue
- Recycled materials such as egg cartons, newspaper and plastic containers to build your egg capsule
- Newspapers or plastic table cloths to cover the floor
- Cloths for cleanup

SAFETY TIP:

Thoroughly clean any surface the raw eggs touched because they can carry Salmonella.

ONLINE RESOURCES:

- [Walking on Eggs](#)
- [Eggs strong enough to hold a car](#)
- [Indestructible Egg](#)
- [An Eggs-periment to Test the Strength of an Eggshell](#)
- [Walking on eggs science experiment](#)