

Digital & Print resource

Key Information Sheet



Now available to use with
Google Slides/ Classroom

This resource can now be printed as a PDF
or used in Google slides, helping you be
flexible with learning situations.

4 STEM Tasks

Give students Choice or 4 Weeks of Tasks

STEAM by Theme

Elves in Action

The Scenario: Elves are busy. They barely have time to eat at the break.

The challenge: To design a system to carry the food to eat at the break.

Possible Materials to use:

~ Pop sticks

STEAM by Theme

Elf Outfit

The Scenario: The elves have worn the same outfit for many years. They recently had a meeting and decided they would like a more modern outfit.

The challenge: To design a new outfit that the elves can wear. Remember it needs to be comfortable, suitable for busy work, have a Christmas feel and include some of the latest fashion trends!

Possible Materials to use:

~ Pop sticks



STEAM by Theme

Guide my Sleigh

The Scenario

The challenge

Possible Materials to use:

~ Pop sticks
~ String
~ Paper

STEAM by Theme

Naughty or Nice

The Scenario: It takes a lot of time for Santa to check his naughty and nice list each year. Remember he needs to check it twice!! Surely with modern technology there must be a quicker way...

The challenge: To design a system for Santa to use to keep a record of whether children have been naughty or nice during the year. What type of equipment would be needed? Would you use the Internet, an App or other technology?

Possible Materials to use:

~ Pop sticks



2 Different Versions

Glue in Books/ Display on Table

TEAM by
Theme

Gift Wrapped

The Scenario: At Santa's Workshop they are required to quickly wrap many presents of different shapes and sizes. It is time consuming trying to find the right boxes.

The challenge: To design and create a box that can fit as many different shaped toys in as possible. The box should be no bigger than 20cms by 20cms (8 inches by 8 inches). As boxing materials are expensive try not to have too much wasted room inside. How many class items will fit in there?



Santa's Workshop Theme

- Be CREATIVE
- Personal touch.
- Decorate it with your own
- how you could do it differently.
- Over come challenges - think
- Clean up after yourself
- Be sensible and on task.
- Actively contribute to the task.
- Ideas, and test them out.
- Listen to other group members
- Work as a team.
- complete them.
- Record the process/ steps as you
- Complete the design stage first.



- Possible Materials**
- ~ Paper
 - ~ Tape
 - ~ Glue
 - ~ Craft items
 - ~ Scrap materials around the classroom.

to use:



Perfect for Busy Teachers

ONLY USES BASIC CLASS SUPPLIES:

- * String
- * Pop sticks (craft sticks)
- * Paper
- * Craft items
- * Glue
- * cardboard
- * Scrap materials

**NO
PREP!**

Group Planning Sheets



