Slide 1

To be able to explore the 11 and 12 times tables

MathShed

Starter:

Which one doesn't belong?

Explain your answer.

Slide 2

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Activity 1:

Referring to the mathematical equipment, complete the sentences below:

3 x 10 = __   3 x 2 = __

3 lots of 10 cubes = __   3 lots of 2 cubes = __

3 lots of 12 cubes = __

3 x 10 + 3 x 2 = 3 x 12 = __

Slide 3

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Activity 2:

Use mathematical equipment to represent the 12 times table, then complete:

12 x 4 = __	4 x __ = 48	__ x 12 = 72
12 x __ = 60	__ x 12 = 144	__ x 12 = 120
__ ÷ 12 = 8	__ ÷ 7 = 12	___ ÷ 11 = 12

Slide 4

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Activity 3:

Solve the word problems below.

a) Five teams are taking place in a swimming competition.
There are eleven simmers in each team.
How many swimmers are competing altogether?

b) There are twelve cupcakes in a box.
Yasmin bought nine boxes of cupcakes for a party.
How many cupcakes did Yasmin buy in total?

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Activity 4:

Here is a selection box of assorted doughnuts from Berlin Bakery.

a) If Berlin Bakery bake 12 assorted boxes of doughnuts, how many donuts have they baked in total?

b) In each box of assorted doughnuts there are six vanilla doughnuts, three chocolate doughnuts, two strawberry doughnuts and one apple doughnut. How many of each type of doughnut are there in the twelve boxes?

c) If Berlin Bakery sell seven assorted boxes of doughnuts, how many doughnuts do they have left in their remaining assorted doughnut boxes?

Slide 6

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Activity 5:

James says, "I have used a bar model to represent 7 x 11 = 77."

77						
7	7	7	7	7	7	7

Do you agree with James' representation?
Explain your answer.

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Evaluation:

If you multiply a whole number by 12 you are more likely to get an odd number than if you multiply a whole number by 11.

Is Astrobee's statement true or false?
Explain your answer.