

Toy Factory

Discover how toys are made!

This worksheet is to be used with Project Pull-out 48, which is found in issue 101 of DMAG. You will need to read this Project Pull-out carefully to be able to complete your mission ... which is to do these activities!



FROM IMAGINATION TO CREATION

Every man-made product in your life, from toys to clothes to chairs to cars, starts its life in someone's imagination. And usually, the first step in designing the product and taking it from the imagination into the real world, is to sketch it. Your task is to design a toy dragon. Use the steps below to guide you.

- 1) Think about an idea - a concept - for your dragon. What will make it special? What will its personality be like?
- 2) Using a pencil and a separate piece of paper, sketch your dragon from the front.
- 3) Now try sketching your dragon from the side - make sure that the parts you could see from the front match the parts that you can see from the side.
- 4) Ask your teacher if you can make two photocopies of your sketches. Colour both of your photocopies in.
- 5) Think about the materials your dragon is going to be made from. Draw arrows on one of the coloured-in photocopies labelling the different parts of the dragon and saying what they will be made from. E.g. smooth red plastic, white painted wood, rubber, metal.
- 6) Think about how your dragon will move. Will its joints be able to move or will they be fixed? Will they swivel, rotate or swing? Will other parts be able to bend or twist? On the same drawing as above, label parts and describe how they move.
- 7) On a separate piece of large paper, design a background for your dragon to live in. Will it be another world? Colour in this background. Cut out the dragon on the second coloured-in photocopy and stick it on your background.
- 8) Think of a name for your dragon and title your drawings with it.
- 9) Write a brief description of your dragon's personality.

DRAGON DESCRIBING WORDS

We've scrambled some words that describe some aspects of a dragon. See if you can unscramble them.

1) R E Y I F _ _ _ _ _

Hint: A dragon's breath might be this.

2) F E C I R E _ _ _ _ _

Hint: Dragons might appear this way to humans.

3) L A C Y S _ _ _ _ _

Hint: Its skin could be this.

4) I S E W _ _ _ _ _

Hint: Another word for clever.

5) N I T A C E N _ _ _ _ _

Hint: Very, very old.

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MAKING 'EM WORD FIND

Read the piece in DMAG about how Mega Bloks are made, then try to find all the related words in our word find. Words can be horizontal, vertical or diagonal.



P	A	T	P	A	C	K	A	G	E	D	P	A
A	L	S	L	M	A	T	E	R	I	A	L	Y
S	Y	A	S	I	N	J	E	C	T	I	O	N
P	L	Y	M	E	G	A	B	L	O	K	S	X
S	O	M	P	L	M	A	P	O	Y	P	L	A
T	I	O	A	M	O	B	A	L	X	Y	A	P
P	A	L	Y	A	U	P	L	A	S	T	I	C
I	L	T	O	K	L	A	L	Y	X	O	M	E
G	Y	E	P	E	D	Y	E	P	L	A	N	Y
M	A	N	U	F	A	C	T	U	R	I	N	G
E	P	E	L	L	E	T	S	M	S	E	N	P
N	L	O	X	C	O	N	V	E	Y	O	R	E
T	A	F	A	C	T	O	R	Y	P	A	L	Y

assembly line
box
conveyor
factory
injection
make
manufacturing
material
mega bloks
molten

mould
packaged
pallets
pellets
pigment
plastic
resin
silo
toys

PLAY TIME!

If you're going to design toys, you need to understand how they interact. How do you do that? By playing with them! Work out how many MagNext pieces you'll need to make the following shapes.

Square piece



Triangular piece



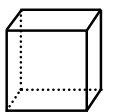
1) Triangular pyramid.



Number of square pieces: _____
No. of balls: _____
No. of triangular pieces: _____



1) Cube.



Number of square pieces: _____
No. of balls: _____
No. of triangular pieces: _____



1) Square pyramid.



Number of square pieces: _____
No. of balls: _____
No. of triangular pieces: _____

Once you've worked out the basic building blocks, you can use your imagination to create almost anything!

