

 READERS

BEGINNING
1
TO READ



M E G A

Machines

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Stage 1 Clearing the site



“Hard hats on!”

says the foreman,
getting to work.



foreman



“Welcome to
the construction site.

The plans are ready
for building a new school.

The mega machines are ready
to start work.”



Rumble, rumble!

“Here they come!”



This picture shows what the new school
will look like.



“What a mess!”

says the foreman,
scratching his head.

The site is not level and
it is covered with rubble.

The bulldozer, front loader,
and dump truck
are needed.

The bulldozer pushes
the dirt and rubble
with its blade.



It moves along
on crawler tracks.

Hum, rumble, hum!



The front loader scoops up
the mounds of dirt and
rubble.

The bucket moves.

Forward...
down...



scoop... up!

The front loader carries
its loaded bucket
raised high.



The dump truck will take
the dirt and rubble away.

The bucket of the front loader
tips up over the dumping bed.

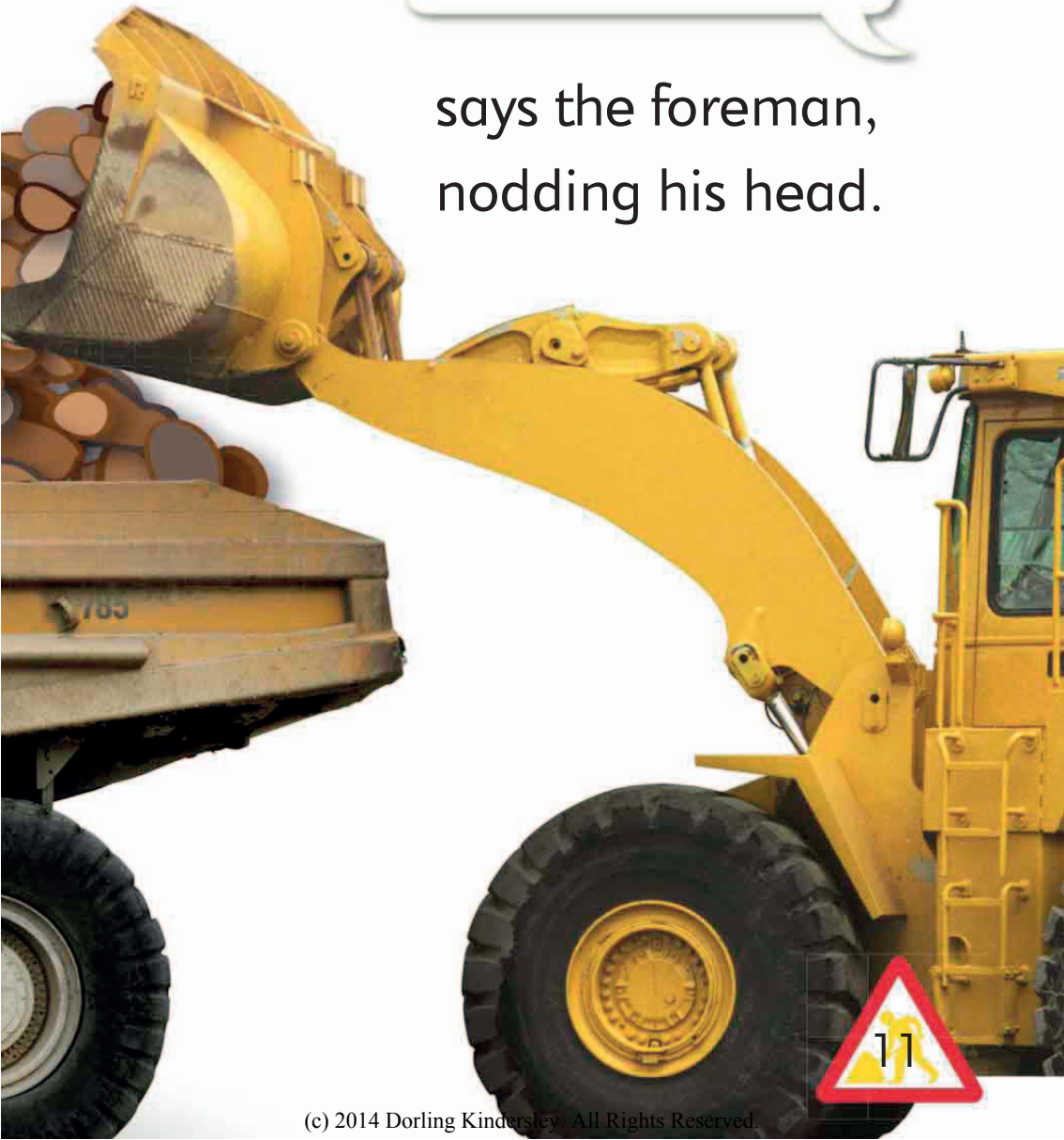
Swish, clatter,
clatter, swish!



The front loader
goes back and forth
to collect some more.

“Stage 1 is done,”

says the foreman,
nodding his head.





Stage 2

Digging the site



“What a noise!”

shouts the foreman,
covering his ears.

The site is now clear
and the excavator
has arrived.



The excavator is needed
to dig some deep holes.

The arm moves.

Lower... scoop...
lift... turn...
drop...
turn!



Whirr, rumble, whirr!

Along comes
the concrete mixer.
The mixing drum
must keep spinning.

“Pour the concrete
into the hole,”

orders the foreman.

“Leave it
to harden.”



concrete



More holes are
dug and filled.
This makes a firm base
for the new school.



The concrete is hard.
The holes have been filled.
Here comes the roller
to make the ground
smooth and flat.

Roll, press,
smooth!



The roller squashes down
the dirt.

“Stage 2 is done,”

says the foreman,
rubbing his ear.





Stage 3

Building the frame

“Raise the crane,”

shouts the foreman,
lifting his arms.



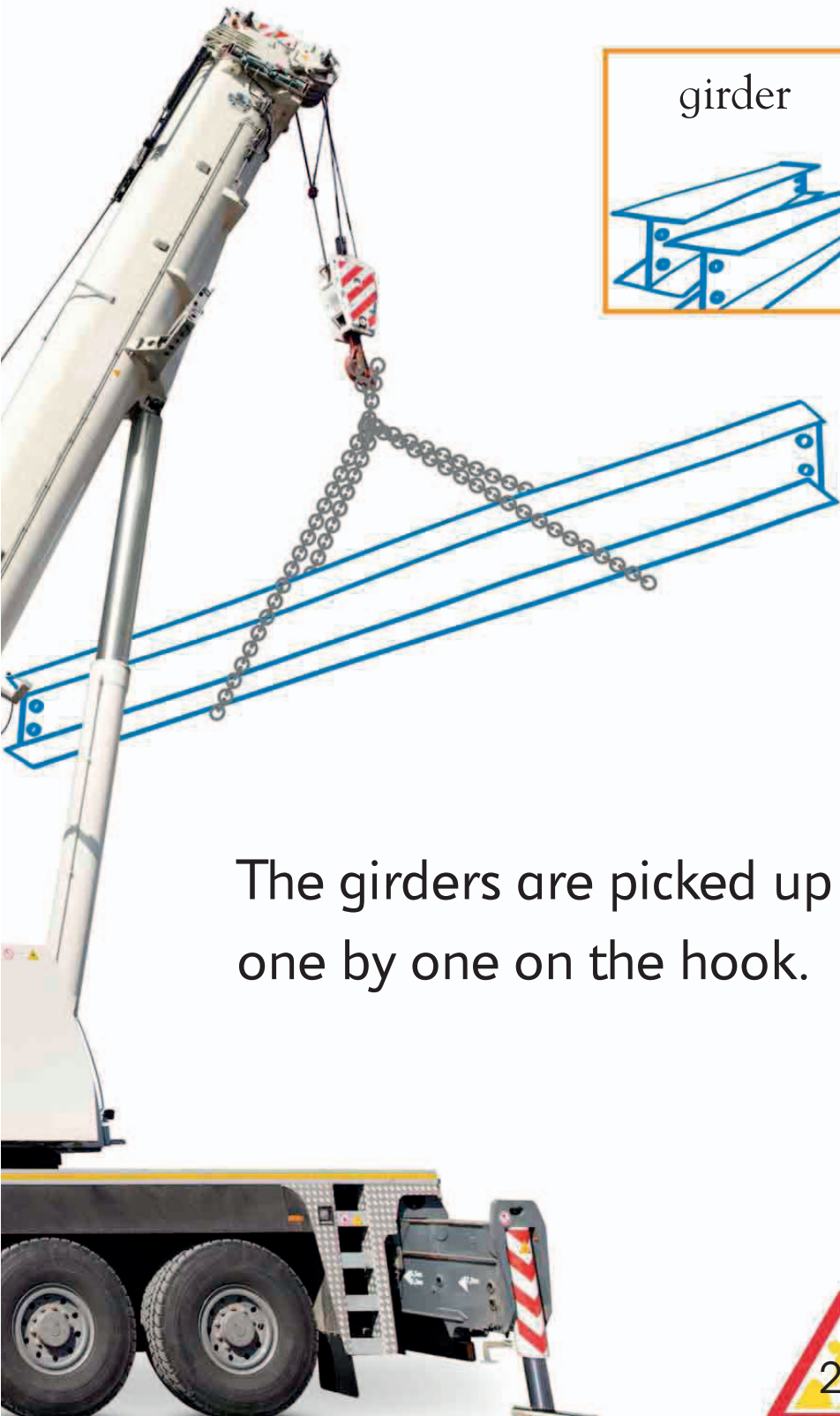
A large mobile crane arrives.
Up, up goes the boom.
The hook hangs from
the chain at the end
of the boom.



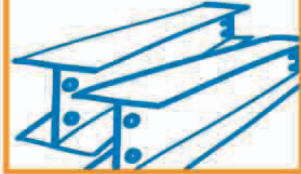
The long trucks bring
the strong steel girders.
The crane driver moves
the levers to lower the hook.

Lower... hook...
lift... turn...
lower... fit...
unhook!



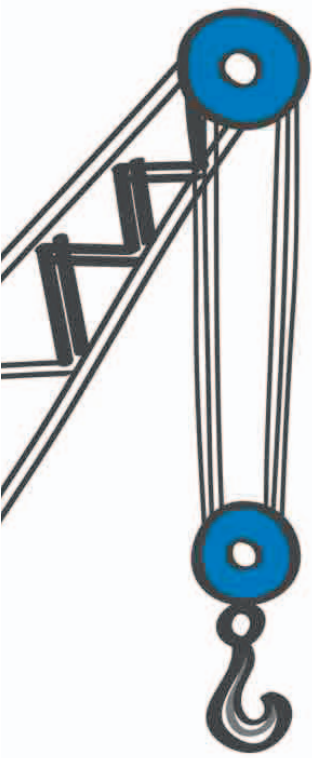


girder

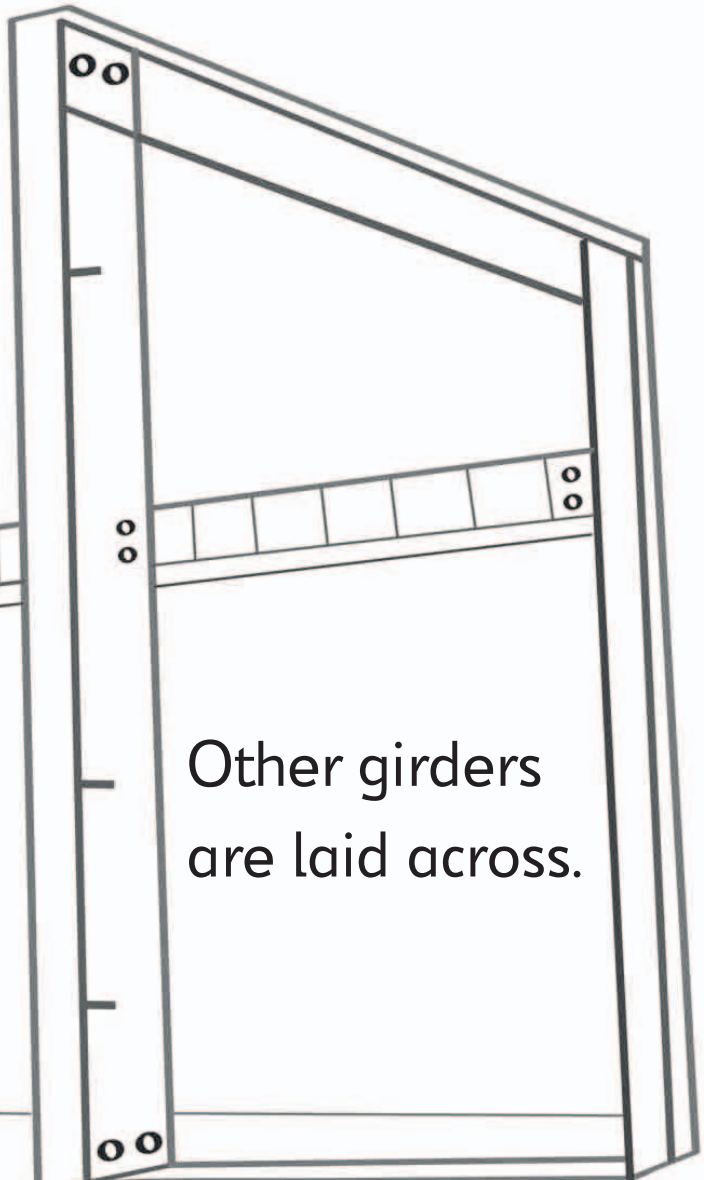


The girders are picked up one by one on the hook.





The upright girders are fitted together first. The crane swings back and forth.



Other girders are laid across.



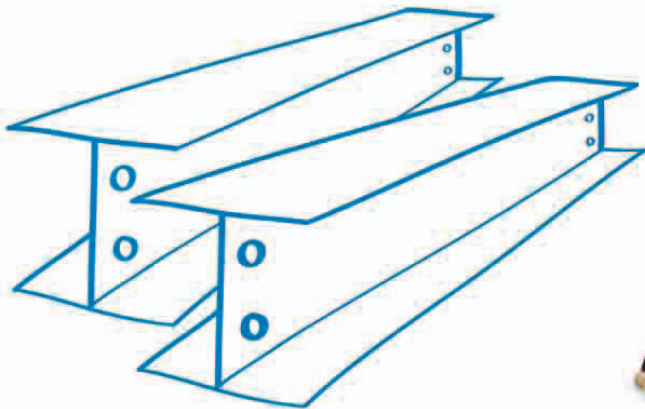
The girders will support
the floors and the roof
of the school.

The workers bolt the girders
together.

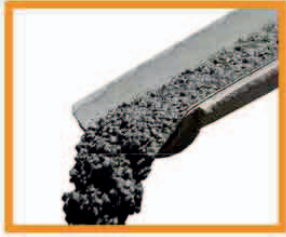
Turn, twist, hammer!

“Stage 3 is done,”

says the foreman,
wiping his forehead.



Glossary



Concrete

mix of cement, sand, small stones, and water



Foreman

someone who is in charge of the other workers



Girder

large, strong steel beam used to make the frame of a building



Plans

drawing to look like a finished building or object



Siding

layer that protects the outside of a building