

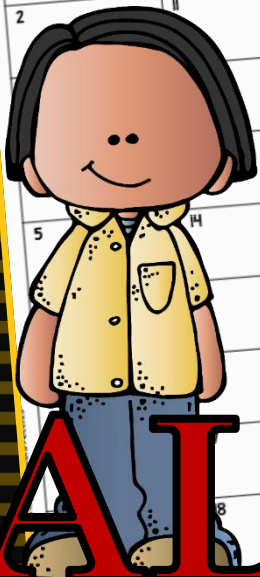
ANSWER KEY
always provided!

TASK CARDS, AROUND THE ROOM,
WHOLE CLASS GUIDED INSTRUCTION

EXONENT RULES TASK CARDS
STUDENT RECORDING SHEET

Name _____ Date _____

1	10	19
2	11	20
		21
		22
5	14	23
		24
		25
		27



10

$$\frac{-4x^2y^2z}{16x^{10}yz}$$

12

$$(x^2y^3)^4$$

20

$$\frac{-5nm^3p}{20m^{-3}n^6}$$

2

$$2a^3b^7 \cdot 3b \cdot a^2c^2$$

ALGEBRA 1

EXPONENT RULES



TASK CARDS

Format #1

1 $x^4y^2z^3 \cdot x^0z^5$	2 $2a^3b^7 \cdot 3b \cdot a^2c^2$	3 $-5m$
4 $-x \cdot x^2 \cdot 3x^5$	5 $-ac \cdot -3b^4 \cdot -2c$	6
7 $\frac{5y^{12}}{10y^5}$	8 $\frac{-22a^{12}b}{11a^5b^2}$	9 3

10 $\frac{-4x^2y^2z^4}{16x^{10}yz^3}$	11 $(x^2)^3$	12 $(x^2y^3)^4$
13 $(-3a^2b)^2$	14 $(-mn^0)^3$	15 $(5abc^2)^2$
16 $4a^{-2}b^7c^2$	17 $\frac{-2x^2y^3}{xy^{-5}}$	18 $(rst)^{-2}$

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19 $(10x^{-2})^{-2}$	20 $\frac{-5nm^3p^{-2}}{20m^{-3}p^6n^2}$	21 $-2(6x^2y)^2$
22 $\frac{1}{2}ab^2(ab)^{-2}$	23 $\frac{1}{4b \cdot b^6c} \cdot (-ab)^3$	24 $-xy^{-3}(7x^3y^0)^2$
25 $(-4mn)^{-1}(2m^{-2}n)^3$	26 $\frac{-18c^2d^{10}}{6(9cd^{-5})^2}$	27 $\left(\frac{-3x^4y^0}{2x(6xy)^2}\right)^2$

1

$$x^4 y^2 z^3 \cdot x^0 z^5$$

2

$$2a^3 b^7 \cdot 3b \cdot a^2 c^2$$

3

$$-5n^3 \cdot 4nm$$

4

$$-x \cdot x^2 \cdot 3x^5$$

5

$$-ac \cdot -3b^4 \cdot -2c$$

6

$$\frac{x^{10}}{x^3}$$

7

$$\frac{5y^{12}}{10y^5}$$

8

$$\frac{-22a^{12}b}{11a^5b^2}$$

9

$$\frac{-m^2n}{3n^2m}$$

10

$$\frac{-4x^2y^2z^4}{16x^{10}yz^3}$$

11

$$(x^2)^3$$

12

$$(x^2y^3)^4$$

13

$$(-3a^2b)^2$$

14

$$(-mn^0)^3$$

15

$$(5abc^2)^2$$

16

$$4a^{-2}b^7c^2$$

17

$$\frac{-2x^2y^3}{xy^{-5}}$$

18

$$(rst)^{-2}$$

19

$$(10x^{-2})^{-2}$$

20

$$\frac{-5nm^3p^{-2}}{20m^{-3}p^6n^2}$$

21

$$-2(6x^2y)^2$$

22

$$\frac{1}{2}ab^2(ab)^{-2}$$

23

$$\frac{1}{4b \cdot b^6c} \cdot (-ab)^3$$

24

$$-xy^{-3}(7x^3y^0)^2$$

25

$$(-4mn)^{-1}(2m^{-2}n)^3$$

26

$$\frac{-18c^2d^{10}}{6(9cd^{-5})^2}$$

27

$$\left(\frac{-3x^4y^0}{2x(6xy)^2}\right)^2$$

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Name _____ **ANSWER KEY** _____ Date _____

EXPONENT RULES TASK CARDS
STUDENT RECORDING SHEET

1	$x^4y^2z^8$	10	$\frac{-yz}{4x^8}$	19	$\frac{x^4}{100}$
2	$6a^5b^8c^2$	11	x^6	20	$\frac{-1m^6}{4np^8}$
3	$-20mn^4$	12	x^8y^{12}	21	$-72x^4y^2$
4	$-3x^8$	13	$9a^4b^2$	22	$\frac{1}{2a}$
5	$-6ab^4c^2$	14	$-m^3$	23	$\frac{-1a^3}{4b^2c}$
6	x^7	15	$25a^2b^2c^4$	24	$\frac{-49x^7}{y^3}$
7	$\frac{y^7}{2}$	16	$\frac{4b^7c^2}{a^2}$	25	$\frac{-2n^2}{m^7}$
8	$\frac{-2a^7}{b}$	17	$-2xy^8$	26	$\frac{-d^{20}}{27}$
9	$\frac{-m}{3n}$	18	$\frac{1}{r^2s^2t^2}$	27	$\frac{x^2}{576y^4}$

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EXPONENT RULES TASK CARDS
STUDENT RECORDING SHEET

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Format #2

AROUND the ROOM

2

$$2a^3b^7 \cdot 3b \cdot a^2c^2$$

10

$$\frac{-4x^2y^2z^4}{16x^{10}yz^3}$$

12

$$(x^2y^3)^4$$

20

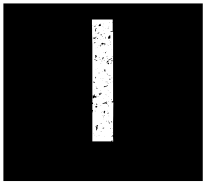
$$\frac{-5nm^3p^{-2}}{20m^{-3}p^6n^2}$$

Name _____ Date _____

EXPONENT RULES TASK CARDS STUDENT RECORDING SHEET

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PRODUCT PROPERTY



$$x^4 y^2 z^3 \cdot x^0 z^5$$

2

$$2a^3b^7 \cdot 3b \cdot a^2c^2$$

3

$$-5n^3 \cdot 4nm$$

4

$$-x \cdot x^2 \cdot 3x^5$$

5

$$-ac \cdot -3b^4 \cdot -2c$$

QUOTIENT PROPERTY

6

$$\frac{x^{10}}{x^3}$$

7

$$\frac{5y^{12}}{10y^5}$$

8

$$-22a^{12}b$$



$$11a^5b^2$$

9

$$\frac{-m^2n}{3n^2m}$$

10

$$-4x^2y^2z^4$$

$$16x^{10}yz^3$$



POWER
PROPERTY



$$(x^2)^3$$

12

$$(x^2 y^3)^4$$

13

$$(-3a^2b)^2$$

14

$$(-mn^0)^3$$

15

$$(5abc^2)^2$$

NEGATIVE EXPONENT PROPERTY

16

$$4a^{-2}b^7c^2$$

17

$$\frac{-2x^2y^3}{xy^{-5}}$$

18

$$(rst)^{-2}$$

19

$$(10x^{-2})^{-2}$$

20

$$-5nm^3p^{-2}$$

$$20m^{-3}p^6n^2$$

COMBINING PROPERTIES

21

$$-2(6x^2y)^2$$

22

$$\frac{1}{2} ab^2 (ab)^{-2}$$

23

$$\frac{1}{4b \cdot b^6 c} \cdot (-ab)^3$$

24

$$-xy^{-3}(7x^3y^0)^2$$

25

$$(-4mn)^{-1} (2m^{-2}n)^3$$

26

$$\frac{-18c^2d^{10}}{6(9cd^{-5})^2}$$

27

$$\left(\frac{-3x^4y^0}{2x(6xy)^2} \right)^2$$

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EXPONENT RULES TASK CARDS
STUDENT RECORDING SHEET

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2	$6a^5b^8c^2$	11	x^6	20	$\frac{-1m^6}{4np^8}$
3	$-20mn^4$	12	x^8y^{12}	21	$-72x^4y^2$
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5	$-6ab^4c^2$	14	$-m^3$	23	$\frac{-1a^3}{4b^2c}$
6	x^7	15	$25a^2b^2c^4$	24	$\frac{-49x^7}{y^3}$
7	$\frac{y^7}{2}$	16	$\frac{4b^7c^2}{a^2}$	25	$\frac{-2n^2}{m^7}$
8	$\frac{-2a^7}{b}$	17	$-2xy^8$	26	$\frac{-d^{20}}{27}$
9	$\frac{-m}{3n}$	18	$\frac{1}{r^2s^2t^2}$	27	$\frac{x^2}{576y^4}$

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5	$-6ab^4c^2$	14	$-m^3$	23	$\frac{-1a^3}{4b^2c}$
6	x^7	15	$25a^2b^2c^4$	24	$\frac{-49x^7}{y^3}$
7	$\frac{y^7}{2}$	16	$\frac{4b^7c^2}{a^2}$	25	$\frac{-2n^2}{m^7}$
8	$\frac{-2a^7}{b}$	17	$-2xy^8$	26	$\frac{-d^{20}}{27}$
9	$\frac{-m}{3n}$	18	$\frac{1}{r^2s^2t^2}$	27	$\frac{x^2}{576y^4}$

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Format #3

WHOLE-CLASS GUIDED INSTRUCTIONS

10

$$\frac{-4x^2y^2z^4}{16x^{10}yz^3}$$

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10

ANSWER KEY

$$\frac{-4x^2y^2z^4}{16x^{10}yz^3}$$
$$\frac{-yz}{4x^8}$$

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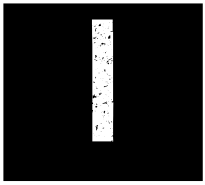
EXPONENT RULES TASK CARDS
STUDENT RECORDING SHEET

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Sized for
Screen
Projection like
ActivBoard or
SmartBoard

PRODUCT PROPERTY



$$x^4 y^2 z^3 \cdot x^0 z^5$$

ANSWER KEY

$$x^4 y^2 z^3 \cdot x^0 z^5$$

$$x^4 y^2 z^8$$

2

$$2a^3b^7 \cdot 3b \cdot a^2c^2$$

2

ANSWER KEY

$$2a^3b^7 \cdot 3b \cdot a^2c^2$$

$$6a^5b^8c^2$$

3

$$-5n^3 \cdot 4nm$$

3

ANSWER KEY

$$-5n^3 \cdot 4nm$$

$$-20mn^4$$

4

$$-x \cdot x^2 \cdot 3x^5$$

4

ANSWER KEY

$$-x \cdot x^2 \cdot 3x^5$$

$$-3x^8$$

5

$$-ac \cdot -3b^4 \cdot -2c$$

5

ANSWER KEY

$$-ac \cdot -3b^4 \cdot -2c$$

$$-6ab^4c^2$$

QUOTIENT PROPERTY

6

$$\frac{x^{10}}{x^3}$$

6

ANSWER KEY

$$\frac{x^{10}}{x^3}$$

$$x^7$$

7

$$\frac{5y^{12}}{10y^5}$$

7

ANSWER KEY

$$\frac{5y^{12}}{10y^5}$$

$$\frac{y^7}{2}$$

8

$$-22a^{12}b$$



$$11a^5b^2$$

8

ANSWER KEY

$$-22a^{12}b$$

$$11a^5b^2$$

$$\frac{-2a^7}{b}$$

9

$$\frac{-m^2n}{3n^2m}$$

9

ANSWER KEY

$$-m^2n$$

$$3n^2m$$

$$-m$$

$$3n$$

10

$$-4x^2y^2z^4$$

$$16x^{10}yz^3$$

10

ANSWER KEY

$$-4x^2y^2z^4$$

$$16x^{10}yz^3$$

$$\frac{-yz}{4x^8}$$



POWER
PROPERTY



$$(x^2)^3$$

ANSWER KEY

$$(x^2)^3$$

$$x^6$$

12

$$(x^2 y^3)^4$$

12

ANSWER KEY

$$(x^2y^3)^4$$

$$x^8y^{12}$$

13

$$(-3a^2b)^2$$

13

ANSWER KEY

$$(-3a^2b)^2$$

$$9a^4b^2$$

14

$$(-mn^0)^3$$

14

ANSWER KEY

$$\left(-mn^0\right)^3$$

$$-m^3$$

15

$$(5abc^2)^2$$

15

ANSWER KEY

$$(5abc^2)^2$$

$$25a^2b^2c^4$$

NEGATIVE EXPONENT PROPERTY

16

$$4a^{-2}b^7c^2$$

16

ANSWER KEY

$$4a^{-2}b^7c^2$$

$$\frac{4b^7c^2}{a^2}$$

17

$$\frac{-2x^2y^3}{xy^{-5}}$$

17

ANSWER KEY

$$\frac{-2x^2y^3}{xy^{-5}}$$

$$-2xy^8$$

18

$$(rst)^{-2}$$

18

ANSWER KEY

$$(rst)^{-2}$$

$$\frac{1}{r^2 s^2 t^2}$$

19

$$(10x^{-2})^{-2}$$

19

ANSWER KEY

$$(10x^{-2})^{-2}$$

$$x^4$$

$$100$$

20

$$-5nm^3p^{-2}$$

$$20m^{-3}p^6n^2$$

20

ANSWER KEY

$$-5nm^3p^{-2}$$

$$20m^{-3}p^6n^2$$

$$-1m^6$$

$$4np^8$$

COMBINING PROPERTIES

21

$$-2(6x^2y)^2$$

21

ANSWER KEY

$$-2(6x^2y)^2$$

$$-72x^4y^2$$

22

$$\frac{1}{2} ab^2 (ab)^{-2}$$

22

ANSWER KEY

$$\frac{1}{2} ab^2 (ab)^{-2}$$

$$\frac{1}{2a}$$

23

$$\frac{1}{4b \cdot b^6 c} \cdot (-ab)^3$$

23**ANSWER KEY**

$$\frac{1}{4b \cdot b^4 c} \cdot (-ab)^3$$

$$\frac{-1a^3}{4b^2 c}$$

24

$$-xy^{-3}(7x^3y^0)^2$$

24

ANSWER KEY

$$-xy^{-3}(7x^3y^0)^2$$

$$\frac{-49x^7}{y^3}$$

25

$$(-4mn)^{-1} (2m^{-2}n)^3$$

25

ANSWER KEY

$$(-4mn)^{-1} (2m^{-2}n)^3$$

$$\frac{-2n^2}{m^7}$$

26

$$\frac{-18c^2d^{10}}{6(9cd^{-5})^2}$$

26

ANSWER KEY

$$\frac{-18c^2d^{10}}{6(9cd^{-5})^2}$$
$$\frac{-d^{20}}{27}$$

27

$$\left(\frac{-3x^4y^0}{2x(6xy)^2} \right)^2$$

27

ANSWER KEY

$$\left(\frac{-3x^4y^0}{2x(6xy)^2} \right)^2$$

$$\frac{x^2}{576y^4}$$

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STUDENT RECORDING SHEET

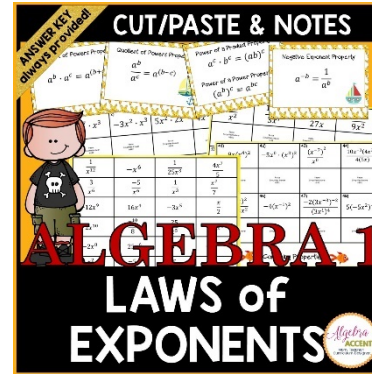
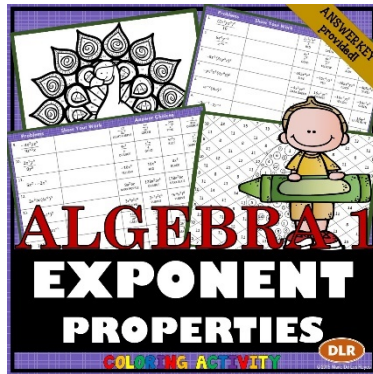
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4	$-3x^8$	13	$9a^4b^2$	22	$\frac{1}{2a}$
5	$-6ab^4c^2$	14	$-m^3$	23	$\frac{-1a^3}{4b^2c}$
6	x^7	15	$25a^2b^2c^4$	24	$\frac{-49x^7}{y^3}$
7	$\frac{y^7}{2}$	16	$\frac{4b^7c^2}{a^2}$	25	$\frac{-2n^2}{m^7}$
8	$\frac{-2a^7}{b}$	17	$-2xy^8$	26	$\frac{-d^{20}}{27}$
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EXONENT RULES TASK CARDS
STUDENT RECORDING SHEET

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9	$\frac{-m}{3n}$	18	$\frac{1}{r^2s^2t^2}$	27	$\frac{x^2}{576y^4}$

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